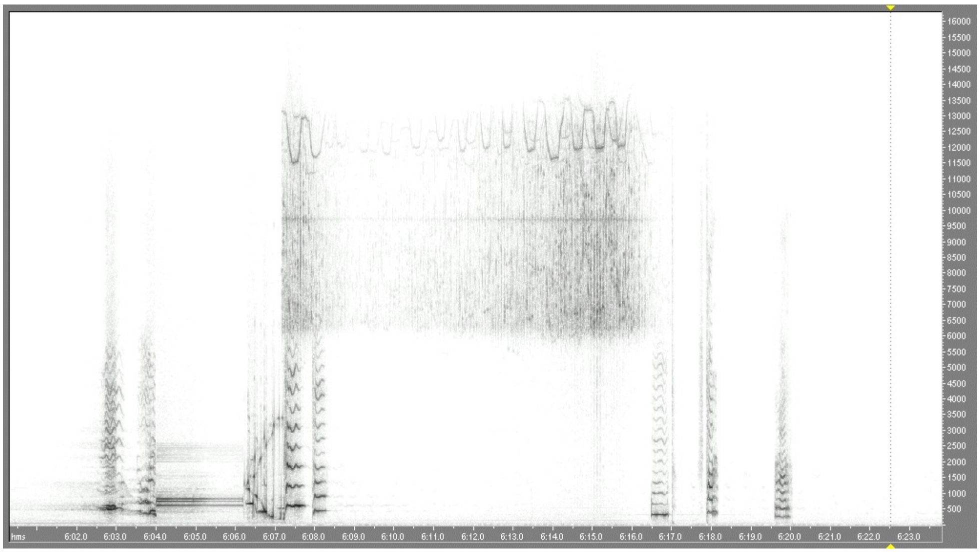
Polyspatial Sonogram Score

Gesang der Jünglinge
Karlheinz Stockhausen
Elektronische Musik 1955/56



John-Philipp Gather

Sonogram score by John-Philipp Gather

Introduction

Gesang der Jünglinge is a space-time composition. Stockhausen distributed the sounds in space – at a certain distance, in a certain direction from the hearer and moving from one place to another. In the first layout of the composition he wanted to realize these spatial aspects by placing loudspeaker around and above the listener. The original score calls for four loudspeaker in the horizontal plane and one loudspeaker in the higher plane. In the sonogram score I indicate a beginning spatial sound movement by a dotted circle; this means that one sound travels across staff systems. I show the direction of that movement with an arrow next to the dotted circle.

Stockhausen constantly varies the duration of his "measures" - so these structural units lack a uniform time length as are common for traditional measures. I propose the term *timeasures* to refer to the *numbered temporal segments* throughout the score. Bars indicate the beginning of a timeasure and sometimes indicate the beginning of a sound within a timeasure, the accompanying numbering scheme making clear which is which.

Gesang der Jünglinge contains human singing and speech as well as electronic timbres. The sound symbol names in the sonogram score—derived from the electronic composition of the sonic microstructure—are musical elements. They correspond to Stockhausen's naming in the composition and realization sketches. The many distinct patterns of the sonograms graphically reflect the wealth of tone colors in this particular musical universe.

I was inspired to use sonograms in approaching electronic music by learning about the historical *Visible Speech* project, which blossomed under the auspices of the classified *Project X* during the last years of the Second World War. I feel that musicology have much to learn from sonogram reading and I hope that this sonogram can advance our understanding of the inner world of sound—of its vibratory and spectral characteristics.

Stockhausen knew about the *Visible Speech* project and had access to a Kay spectrograph at the Phonetic Institute of Bonn University, but his fascination with the inner sound world dated back to 1952, when he first confronted the seemingly limitless chaotic universe within a single sound during his time in Paris, where he met Pierre Schaeffer. From 1954 to 1956 he studied with the scientist Dr. Meyer-Eppler and said that he regarded him as one of the important teachers in his life. Dr. Meyer-Eppler was current with all relevant research in phonetics, acoustics, communications, and general physics including major aspects of quantum physics. He advised Stockhausen on all topics of interest and readings that might have come up in their private conversations, quite beyond the scheduled study and seminars. But while the Kay spectrograph was available at the Phonetic Institute, this wonderful instrument was not directly used in the composition of *Gesang der Jünglinge*. Rather, Stockhausen's understanding of the nature of sound dated back to key experience mentioned above, his ensuing intense study of acoustics ever after, and the completion of two electronic studies and one study of *musique concrète*. During this period he was *devoted* to all aspects of positivistic science that could help him in his work. At the same time, and beyond the world of technology involved in this project, Stockhausen has *exclusively* been motivated by a metaphysical purpose. While this may hold for each composition he wrote, *Gesang der Jünglinge* seems a very striking and direct expression of this fundamental spiritual outlook. Positivistic science and catholic belief in now way seem incompatible.

A few of the notational symbols are explained in the legend on the next page. For a complete discussion of the issues involved in creating the sonogram score from the composer's sketch materials, as well as a historic introduction and a more thorough analysis of the music with examples of sonogram readings, I refer the interested reader to the written part of this dissertation.

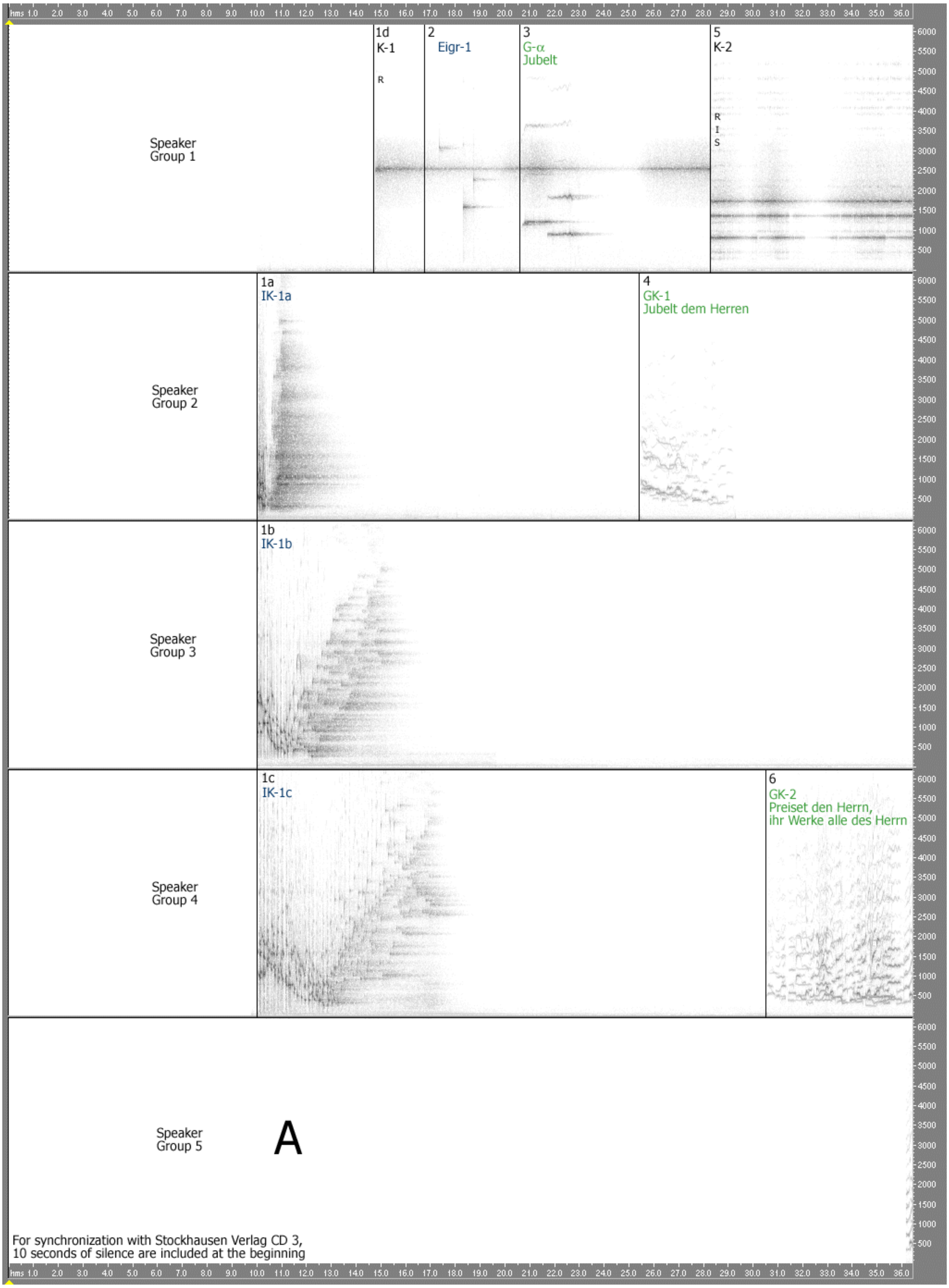
Berlin, 25 February 2003

Legend

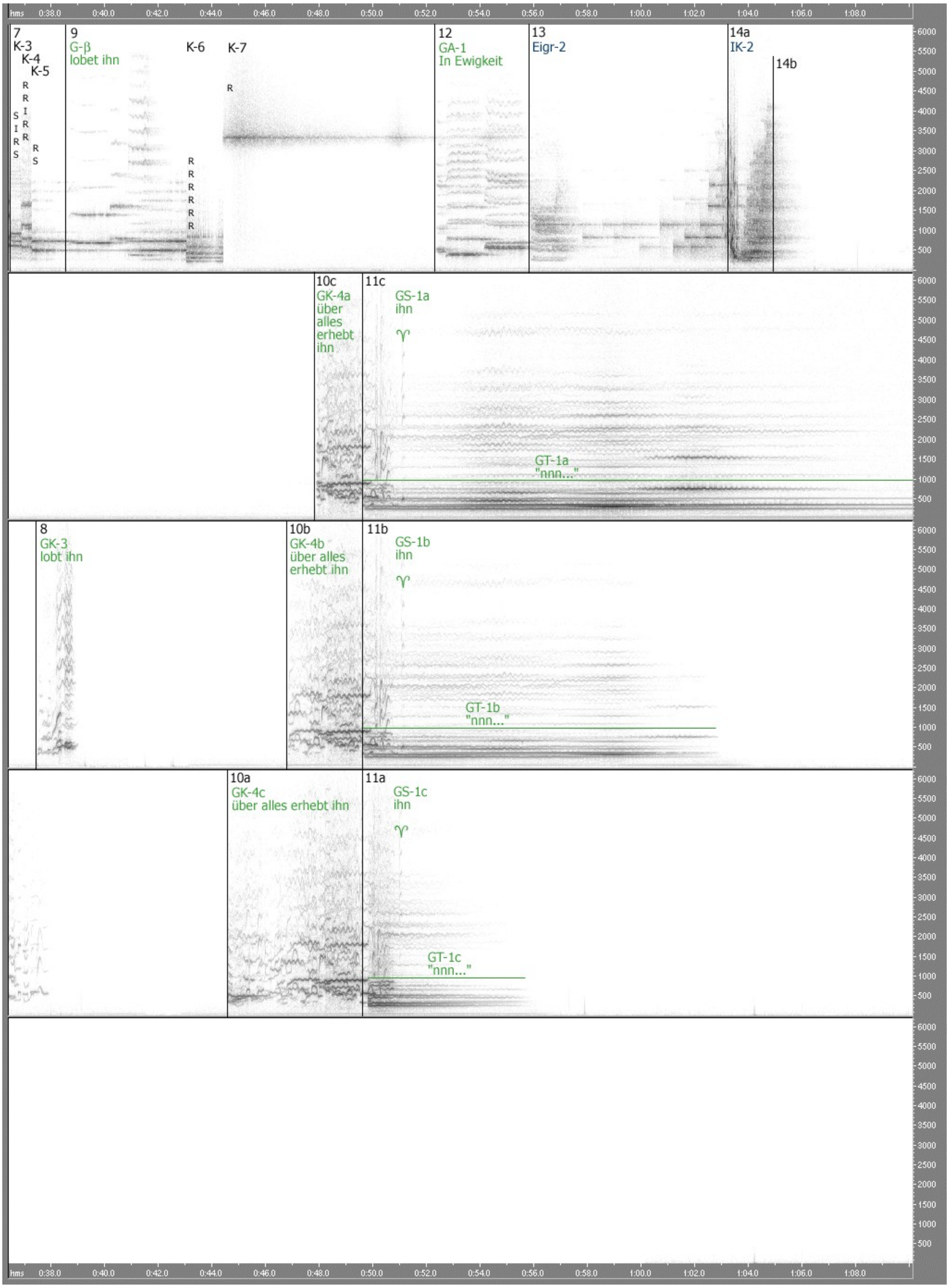
Sound Generator	Sound Symbol	German	English
Impulse	Ei	Einzelner Impuls, gefiltert	Single impulse, filtered
	Eigr	Einzelne Impulse, Gruppe	Single impulses, group
	IK	Impuls Komplex	Impulse complex
	Igr	Impuls Gruppe	Impulse group
	Hi	Hohe Impulse	High impulses
	Mi	Mittlere Impulse	Middle impulses
	Ti	Tiefe Impulse	Deep impulses
	HiK	Hohe Impulse, Komplex	High impulses, complex
	TiK	Tiefe Impulse, Komplex	Deep impulses, complex
	Tr	Trommel (Impuls Akkord)	Drum (impulse chord)
	IS	Impuls Schlag	Impulse beat
Voice	G	Gesang, einstimmig syllabisch	Chant, monodic syllabic
	GK	Gesang Komplex	Chant complex
	GKi	Gesang Komplex, interpoliert	Chant complex, interpolated
	GA	Gesang Akkord	Chant chord
	GT	Gesangston (lang gehalten)	Chant tone (sustained long)
	GP	Gesang Polyräumlich	Chant polyspatial
	GS	Gesang Schlag	Chant beat
Noise	R	Rauschen, eng gefiltert (2%)	Noise, narrowly filtered (2%)
	Ora	Oktav Rauschen	Noise, fitered in octave width
	RK	Rausch Klang	Noise chord
	RR	Rauschen, rhythmisiert	Noise, rhythmicized
	RT	Rauschen, tief	Noise, low
Sine	S	Sinuston (in F: auch als Klang)	Sine tone (in F: also as chord)
Bass Sounds	B	Basston, gefiltert	Bass sound, filtered
	BK	Bass Komplex	Bass complex
	Bgr	Bassgruppen	Bass group
	BS	Bass Schlag	Bass beat
Combination			
	SK	Statistischer Klang	Statistical Chord/Sound

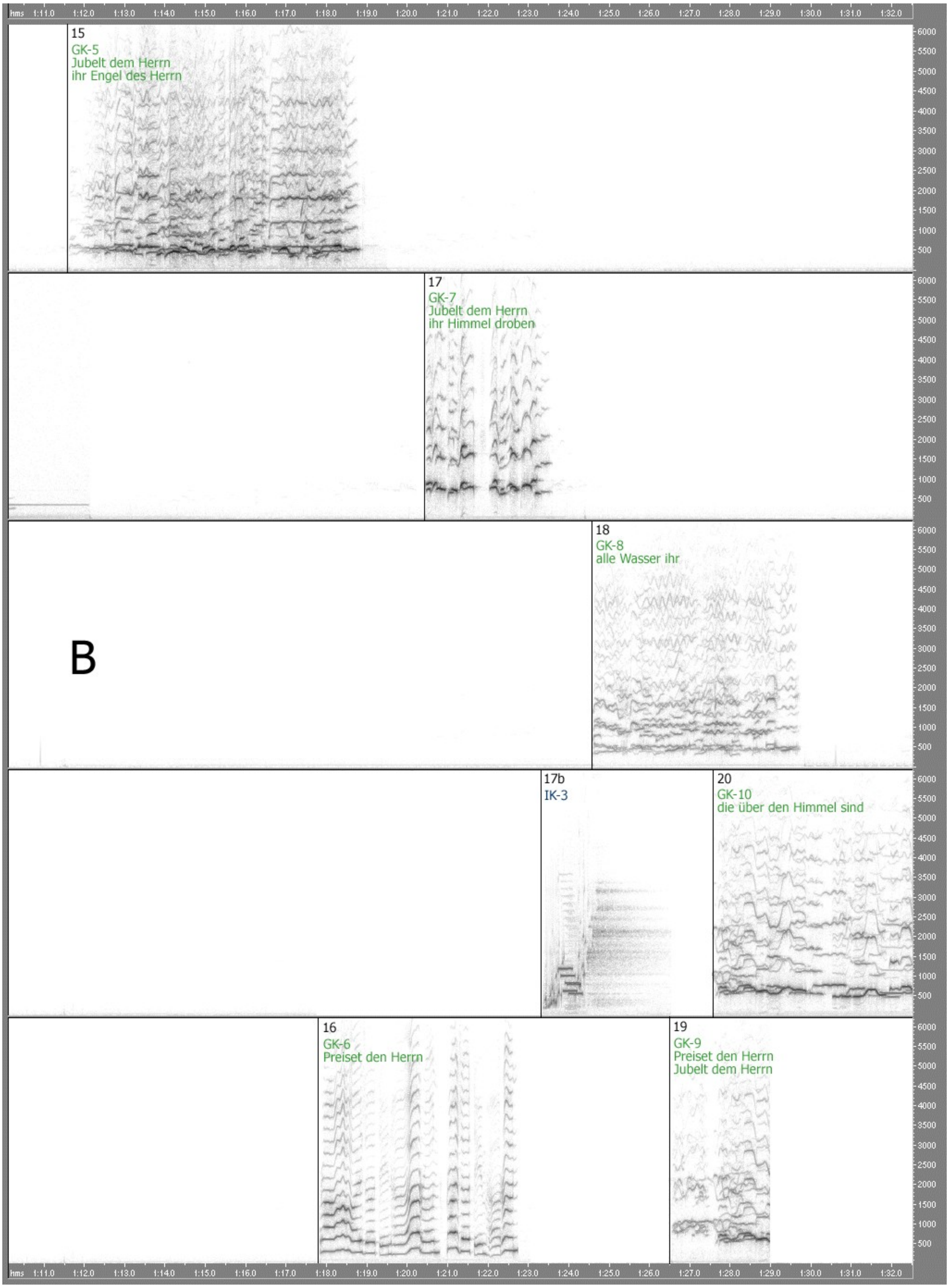
General Symbols

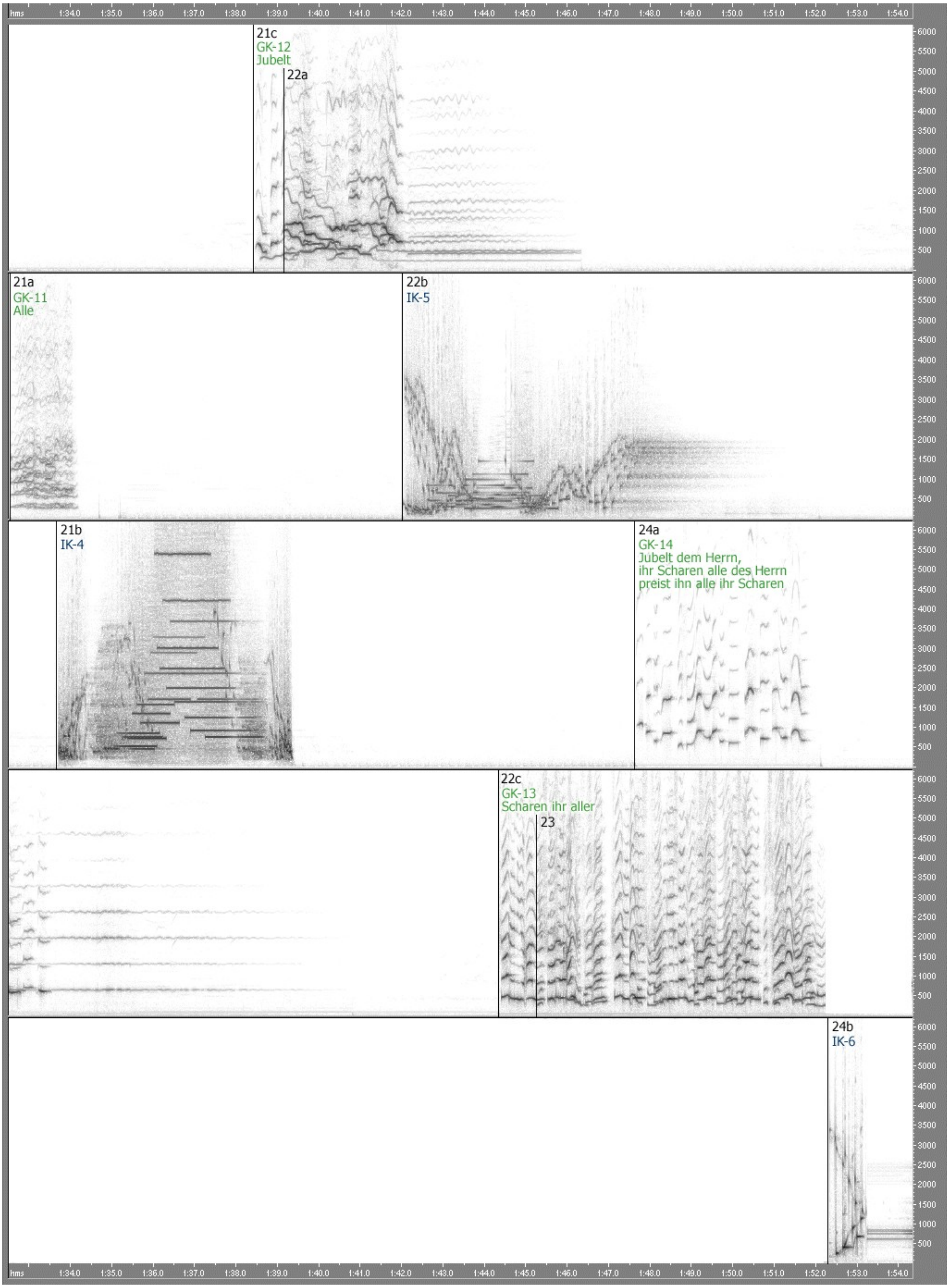
⊙	Alerts to the beginning of spatial sound fragmentation
r (rückwärts, reverse)	An attached letter 'r' at the end of a symbol name indicates a reversed sound.
K (Komplex, complex)	A complex has multiple synchronous temporal layers, mostly statistically formed.
gr (Gruppe, group)	A group is set of elements characterized by a common trait and perceived as a unit.
S (Schlag, beat)	As a secondary symbol component, S signifies percussive attack.
P	Polyphonic singing distributed in space, similar to polychoral Renaissance singing. The boy soprano sings polyspatially; his long sustained notes reach the audience from up to five different speakers.
♈	Accent mark, onset of a percussive beat in mid-timeasure
tr.	Secondary symbol component, indicates transposition

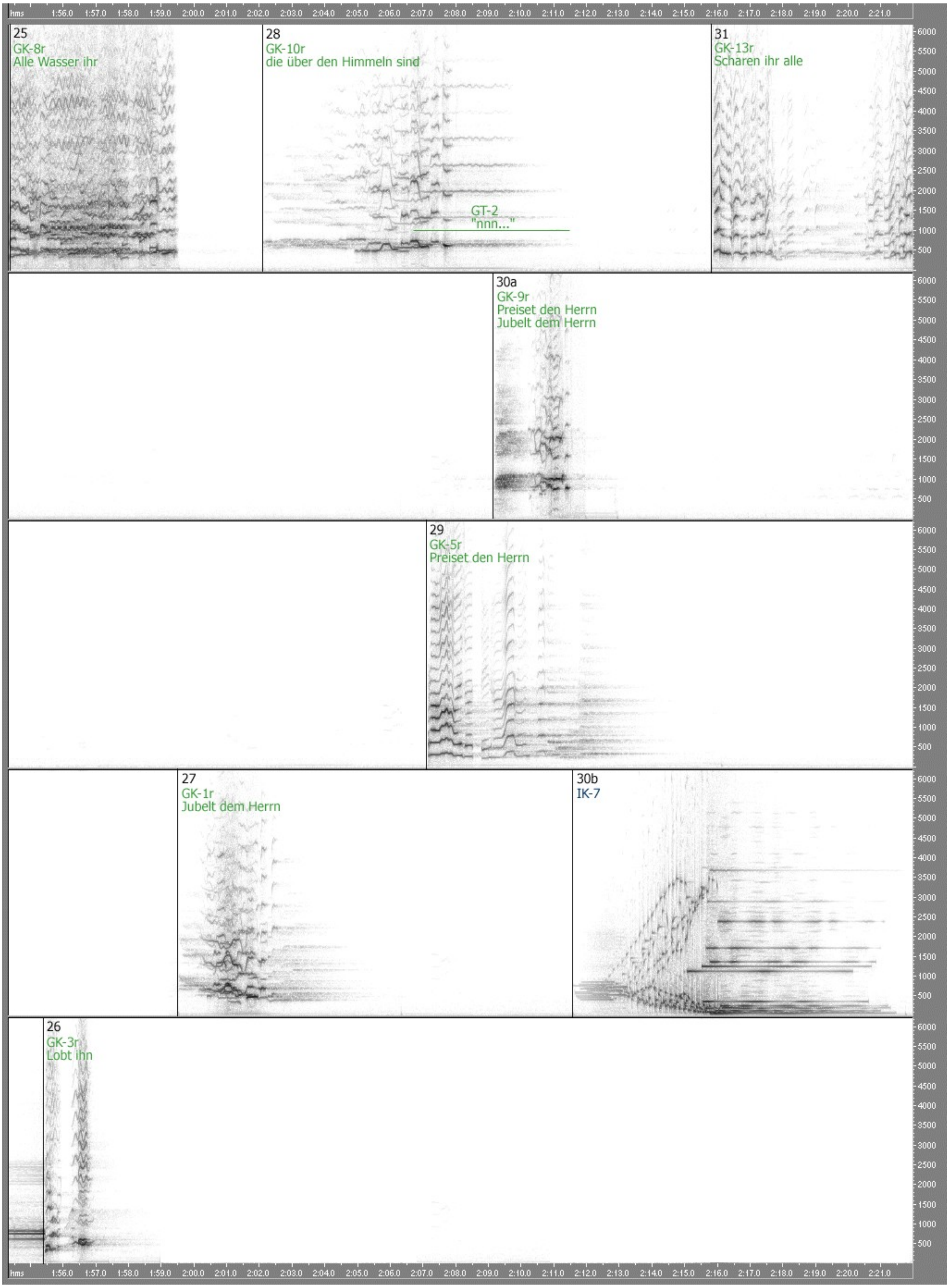


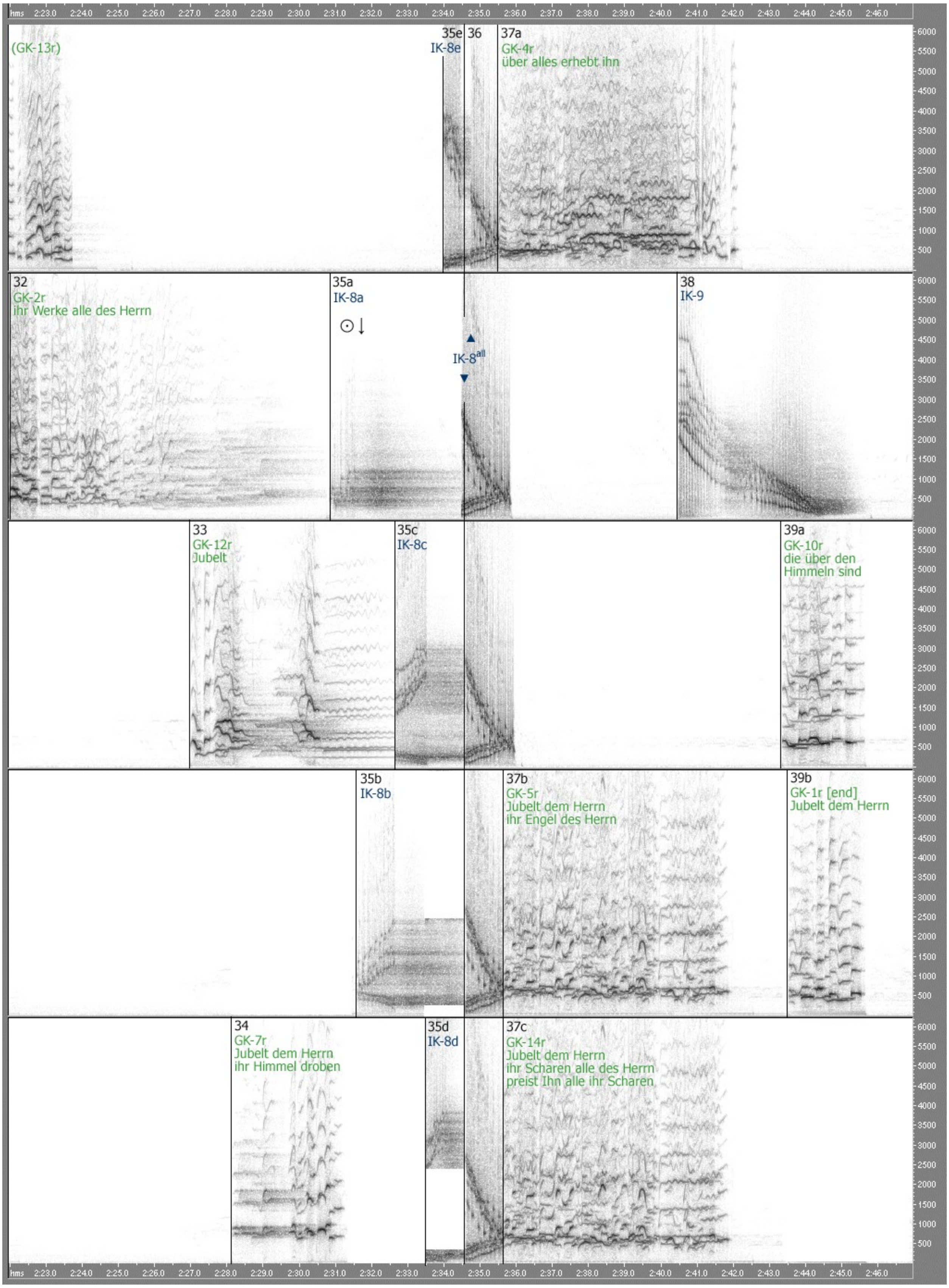
Speaker Group 1
1d
K-1
R
2
Eigr-1
3
G-α
Jubelt
5
K-2
R
I
S
Speaker Group 2
1a
IK-1a
4
GK-1
Jubelt dem Herren
Speaker Group 3
1b
IK-1b
Speaker Group 4
1c
IK-1c
6
GK-2
Preiset den Herrn,
ihr Werke alle des Herrn
Speaker Group 5
A
For synchronization with Stockhausen Verlag CD 3,
10 seconds of silence are included at the beginning


7
K-3
K-4
K-5
9
G-β
lobet ihn
K-6
K-7
12
GA-1
In Ewigkeit
13
Eigr-2
14a
IK-2
14b
10c
GK-4a
über
alles
erhebt
ihn
11c
GS-1a
ihn
GT-1a
"nnn..."
8
GK-3
lobt ihn
10b
GK-4b
über alles
erhebt ihn
11b
GS-1b
ihn
GT-1b
"nnn..."
10a
GK-4c
über alles erhebt ihn
11a
GS-1c
ihn
GT-1c
"nnn..."

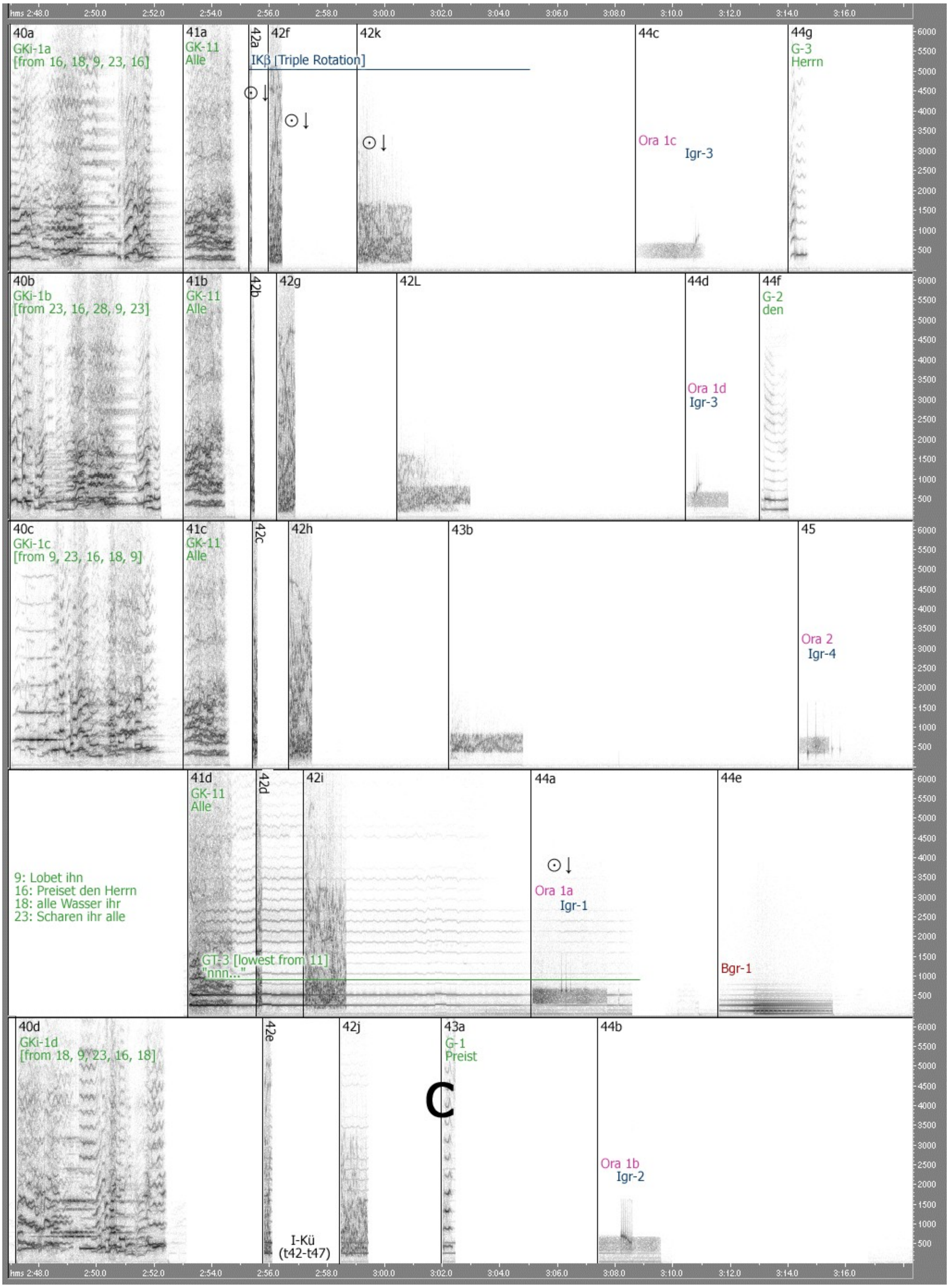

15
GK-5
Jubelt dem Herrn
ihr Engel des Herrn
17
GK-7
Jubelt dem Herrn
ihr Himmel droben
B
18
GK-8
alle Wasser ihr
17b
IK-3
20
GK-10
die über den Himmel sind
16
GK-6
Preiset den Herrn
19
GK-9
Preiset den Herrn
Jubelt dem Herrn

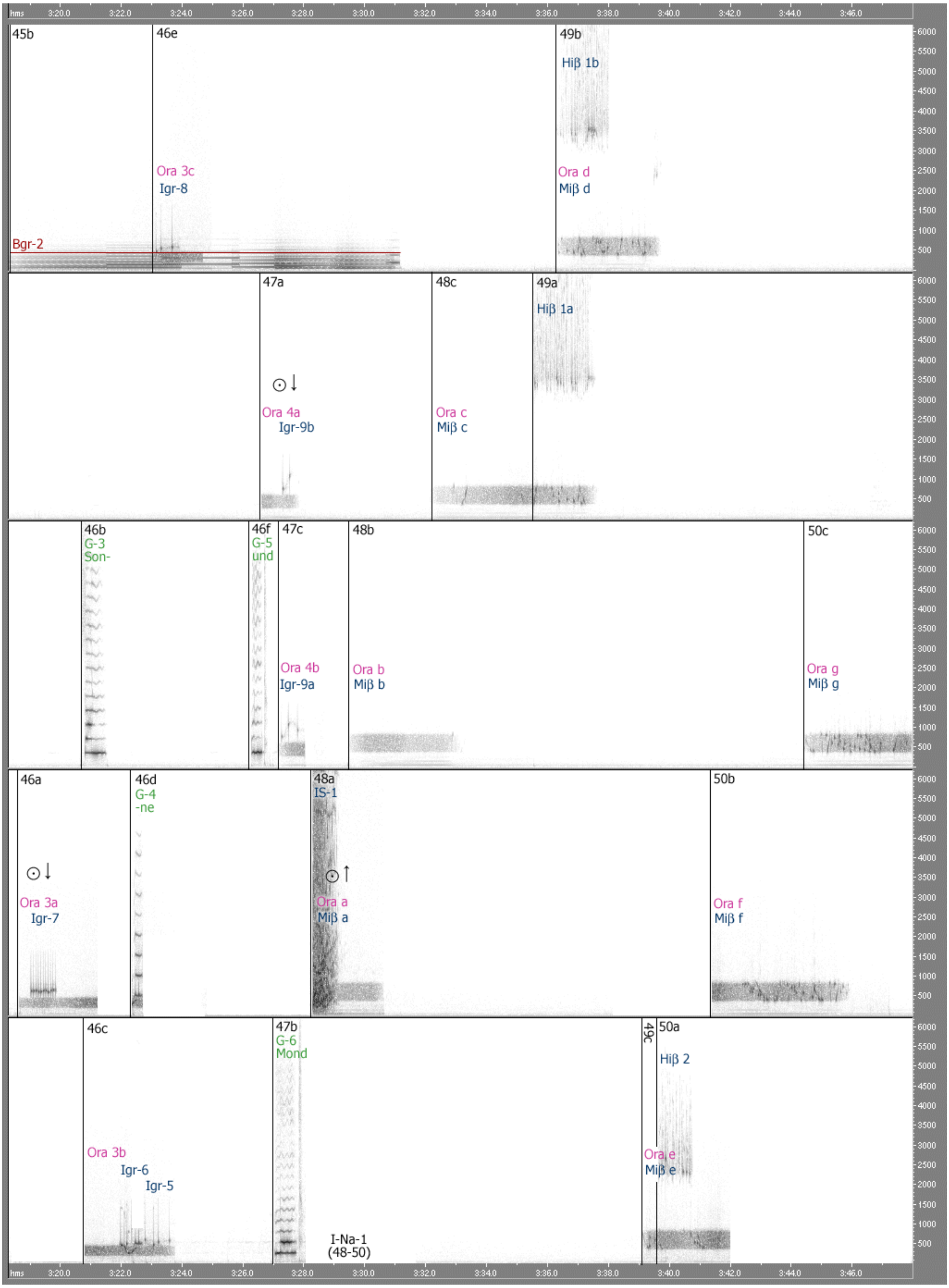

21c
GK-12
Jubelt
22a
21a
GK-11
Alle
22b
IK-5
21b
IK-4
24a
GK-14
Jubelt dem Herrn,
ihr Scharen alle des Herrn
preist ihn alle ihr Scharen
22c
GK-13
Scharen ihr aller
23
24b
IK-6

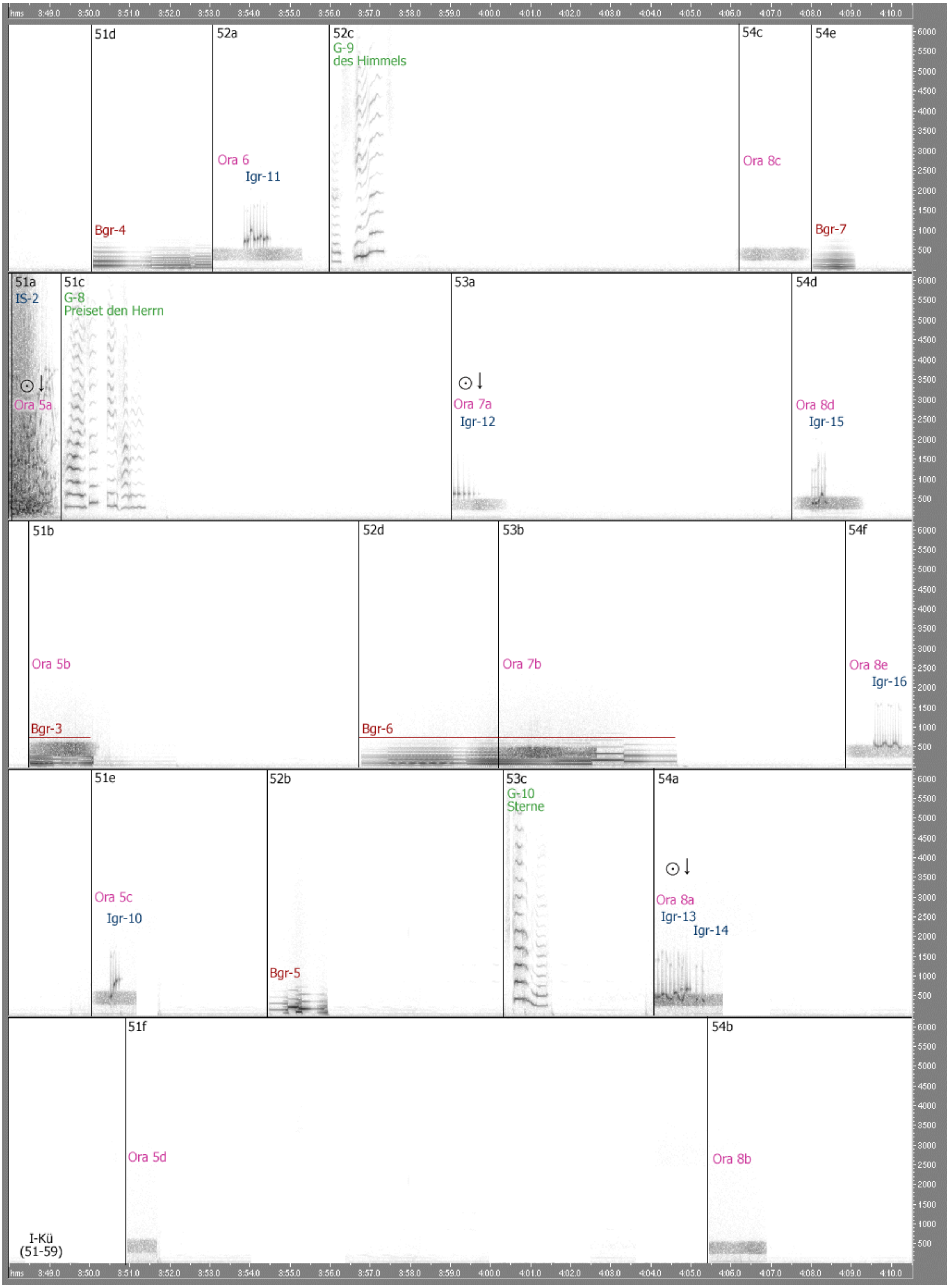

25
GK-8r
Alle Wasser ihr
28
GK-10r
die über den Himmeln sind
GT-2
"nnn..."
31
GK-13r
Scharen ihr alle
30a
GK-9r
Preiset den Herrn
Jubelt dem Herrn
29
GK-5r
Preiset den Herrn
27
GK-1r
Jubelt dem Herrn
30b
IK-7
26
GK-3r
Lobt ihn

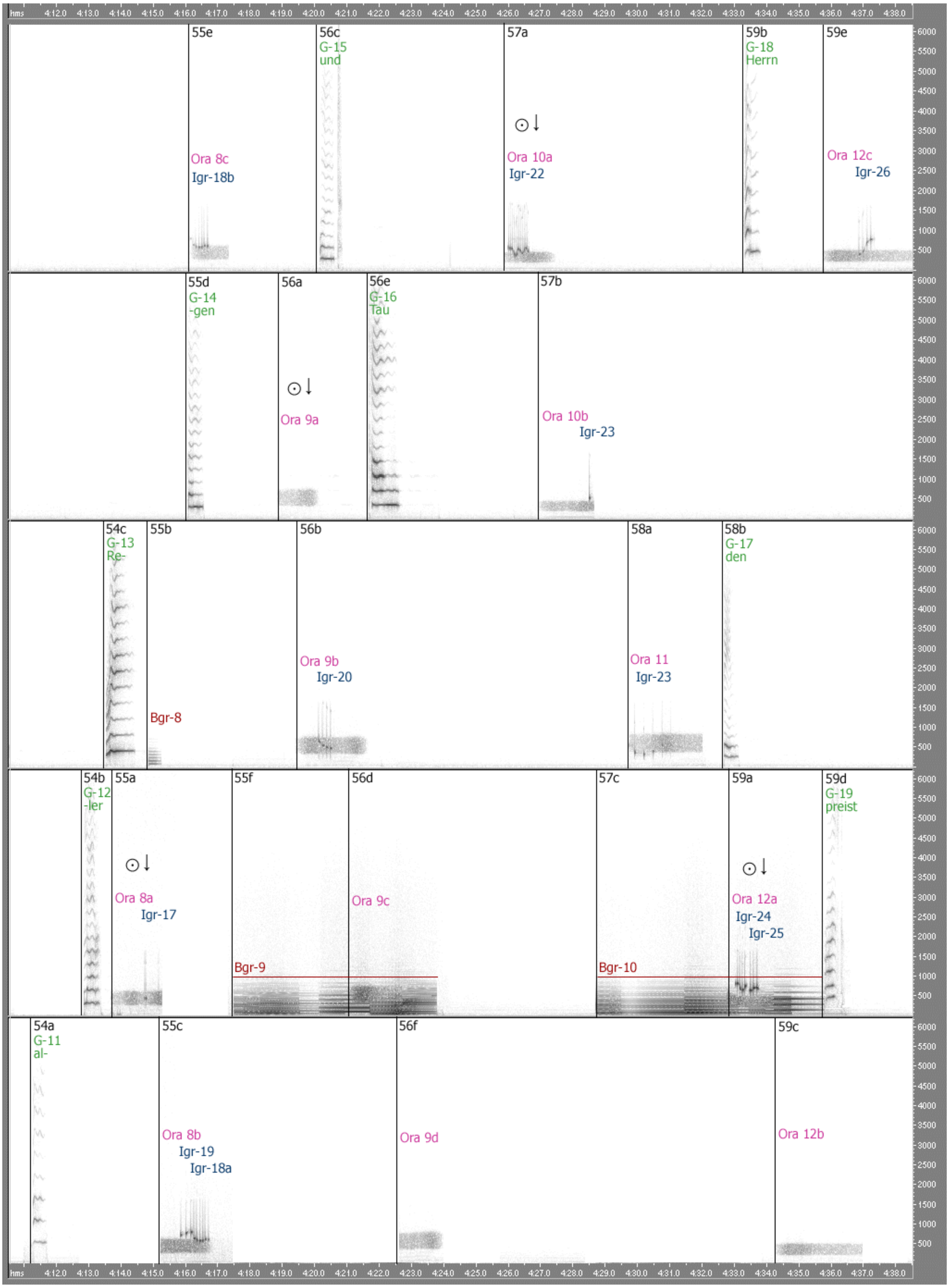


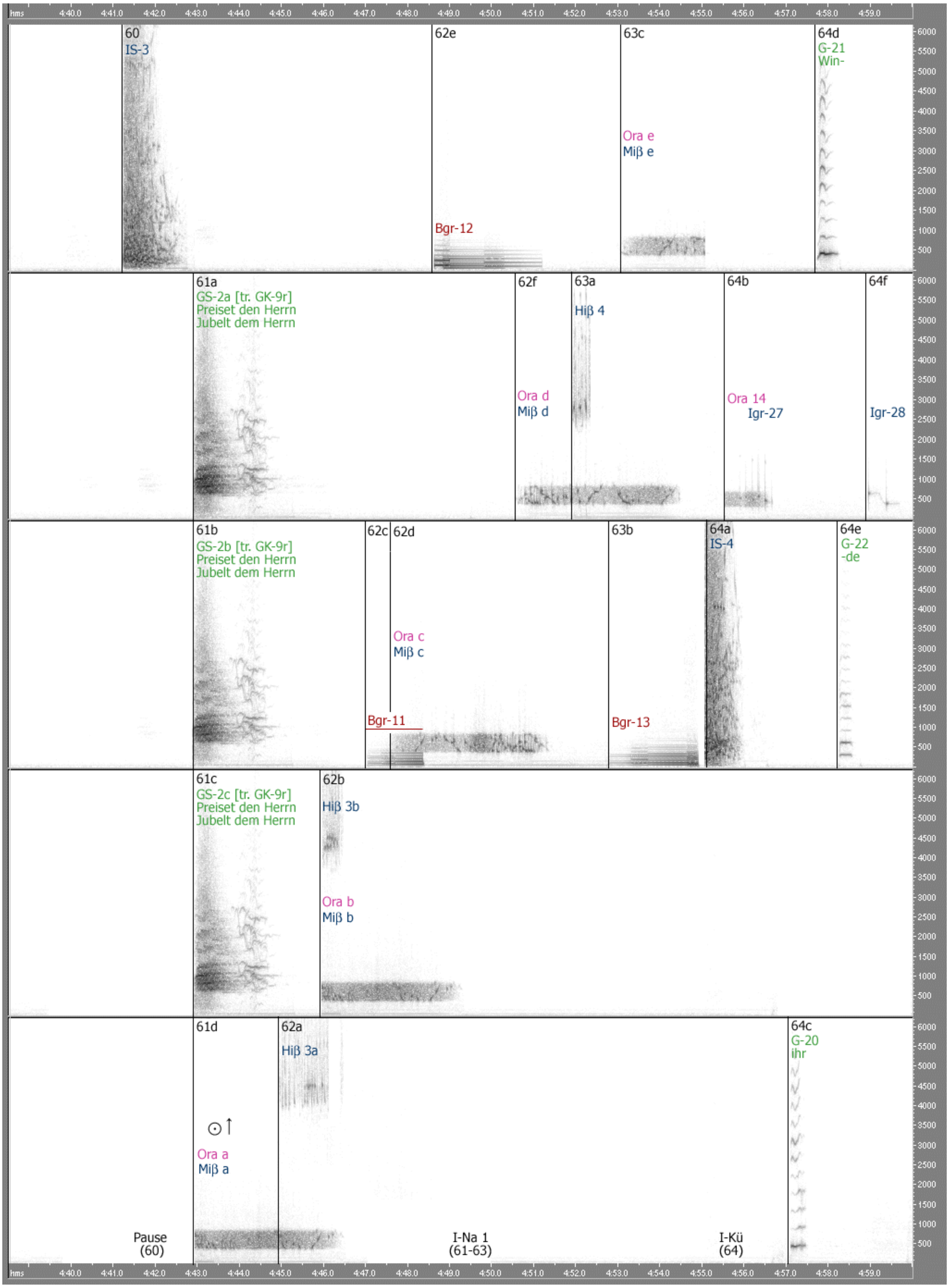
(GK-13r)
35e
IK-8e
36
37a
GK-4r
über alles erhebt ihn
32
GK-2r
ihr Werke alle des Herrn
35a
IK-8a
IK-8all
38
IK-9
33
GK-12r
Jubelt
35c
IK-8c
39a
GK-10r
die über den
Himmeln sind
35b
IK-8b
37b
GK-5r
Jubelt dem Herrn
ihr Engel des Herrn
39b
GK-1r [end]
Jubelt dem Herrn
34
GK-7r
Jubelt dem Herrn
ihr Himmel droben
35d
IK-8d
37c
GK-14r
Jubelt dem Herrn
ihr Scharen alle des Herrn
preist Ihn alle ihr Scharen

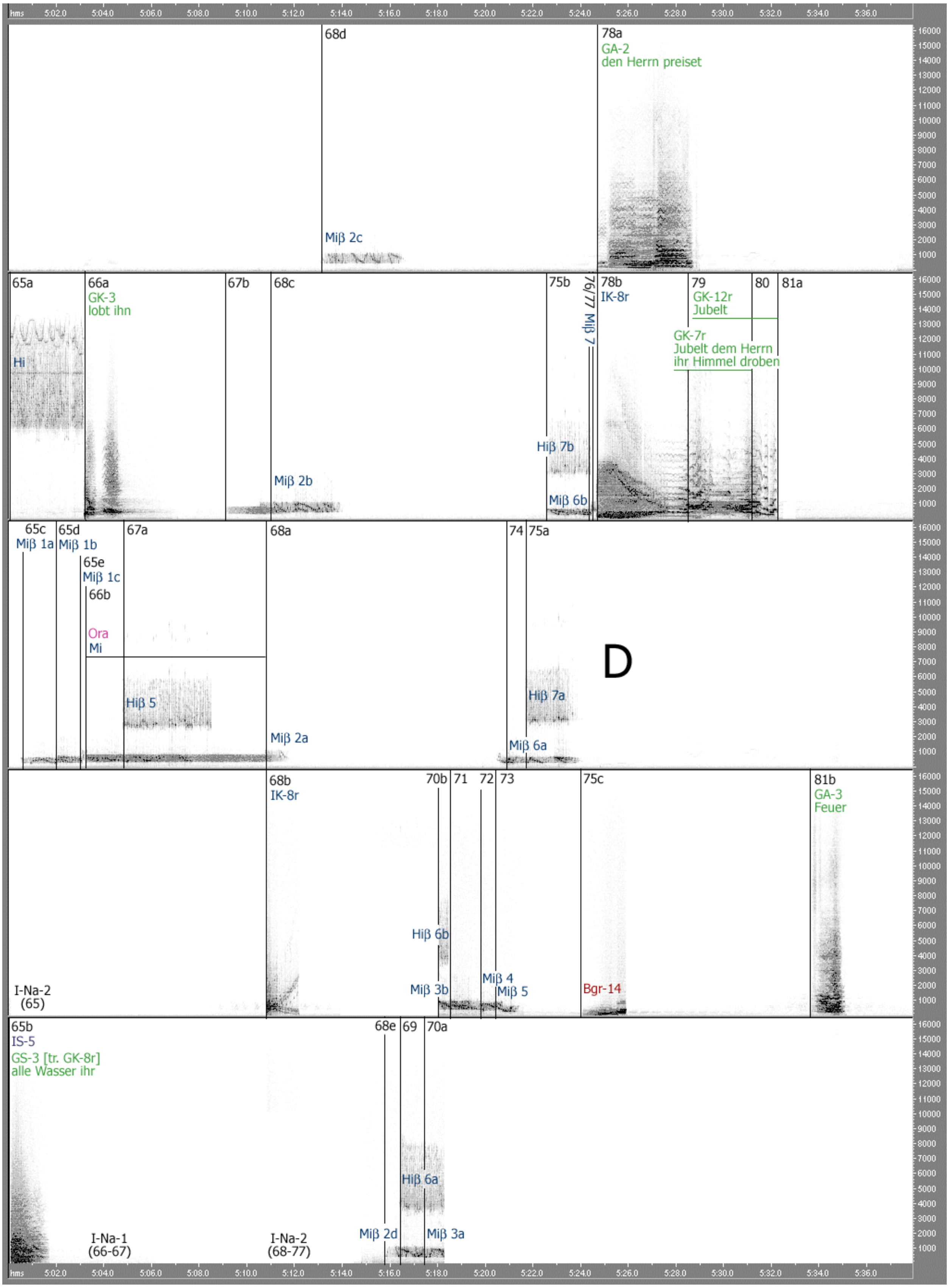

40a
GKi-1a
[from 16, 18, 9, 23, 16]
41a
GK-11
Alle
42a
42f
IKβ [Triple Rotation]
42k
44c
Ora 1c
Igr-3
44g
G-3
Herrn
40b
GKi-1b
[from 23, 16, 28, 9, 23]
41b
GK-11
Alle
42b
42g
42L
44d
Ora 1d
Igr-3
44f
G-2
den
40c
GKi-1c
[from 9, 23, 16, 18, 9]
41c
GK-11
Alle
42c
42h
43b
45
Ora 2
Igr-4
9: Lobet ihn
16: Preiset den Herrn
18: alle Wasser ihr
23: Scharen ihr alle
41d
GK-11
Alle
42d
42i
GT-3 [lowest from 11]
"nnn..."
44a
Ora 1a
Igr-1
44e
Bgr-1
40d
GKi-1d
[from 18, 9, 23, 16, 18]
42e
I-Kü
(t42-t47)
42j
43a
G-1
Preist
C
44b
Ora 1b
Igr-2

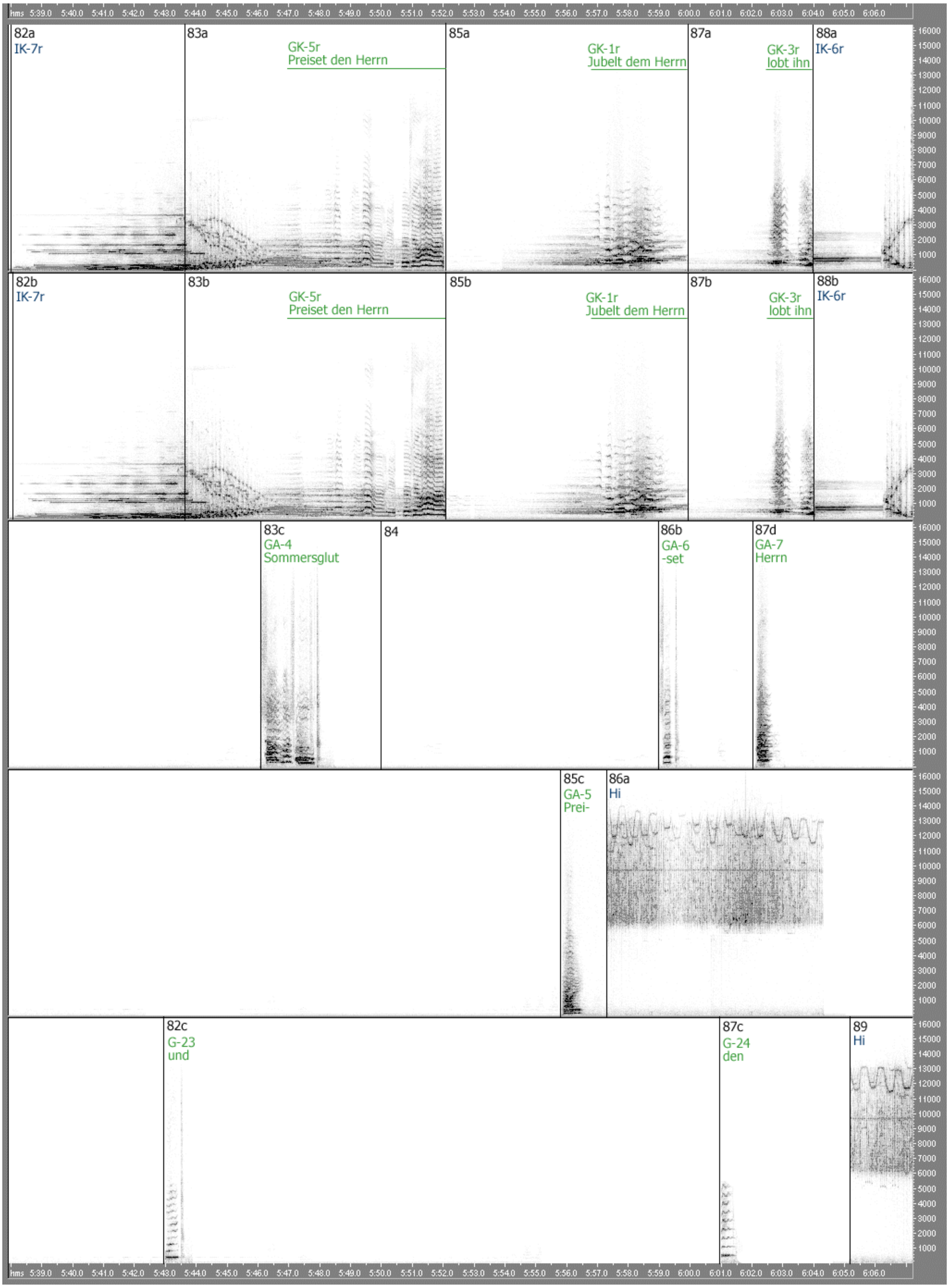

hms
3:20.0
3:22.0
3:24.0
3:26.0
3:28.0
3:30.0
3:32.0
3:34.0
3:36.0
3:38.0
3:40.0
3:42.0
3:44.0
3:46.0
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
45b
46e
49b
Hiβ 1b
Ora 3c
Igr-8
Ora d
Miβ d
Bgr-2
47a
48c
49a
Hiβ 1a
Ora 4a
Igr-9b
Ora c
Miβ c
46b
G-3
Son-
46f
G-5
und
47c
48b
50c
Ora 4b
Igr-9a
Ora b
Miβ b
Ora g
Miβ g
46a
46d
G-4
-ne
48a
IS-1
50b
Ora 3a
Igr-7
Ora a
Miβ a
Ora f
Miβ f
46c
47b
G-6
Mond
49c
50a
Hiβ 2
Ora 3b
Igr-6
Igr-5
Ora e
Miβ e
I-Na-1
(48-50)

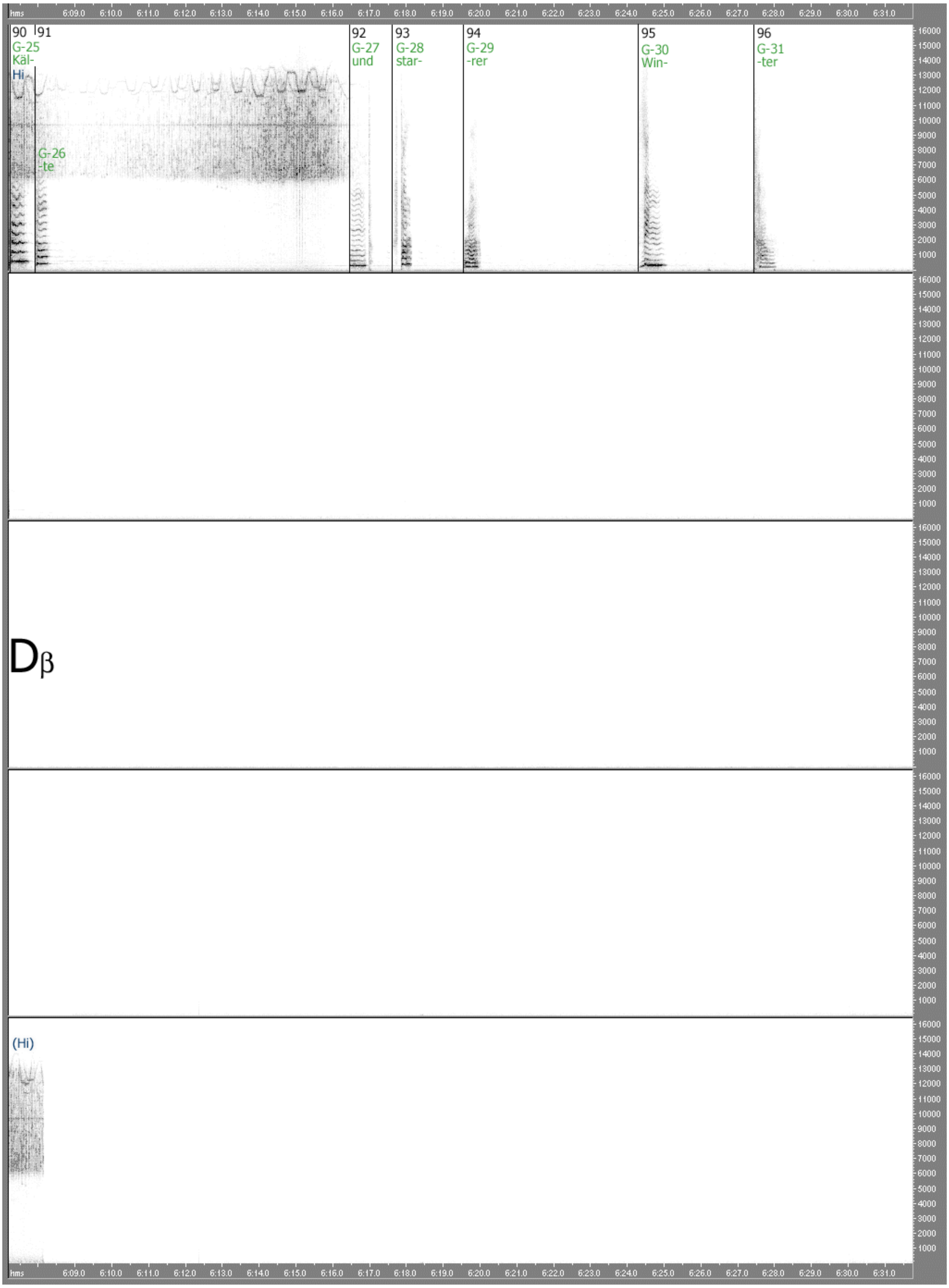

51d
Bgr-4
52a
Ora 6
Igr-11
52c
G-9
des Himmels
54c
Ora 8c
54e
Bgr-7
51a
IS-2
Ora 5a
51c
G-8
Preiset den Herrn
53a
Ora 7a
Igr-12
54d
Ora 8d
Igr-15
51b
Ora 5b
Bgr-3
52d
Bgr-6
53b
Ora 7b
54f
Ora 8e
Igr-16
51e
Ora 5c
Igr-10
52b
Bgr-5
53c
G-10
Sterne
54a
Ora 8a
Igr-13
Igr-14
51f
Ora 5d
54b
Ora 8b
I-Kü
(51-59)

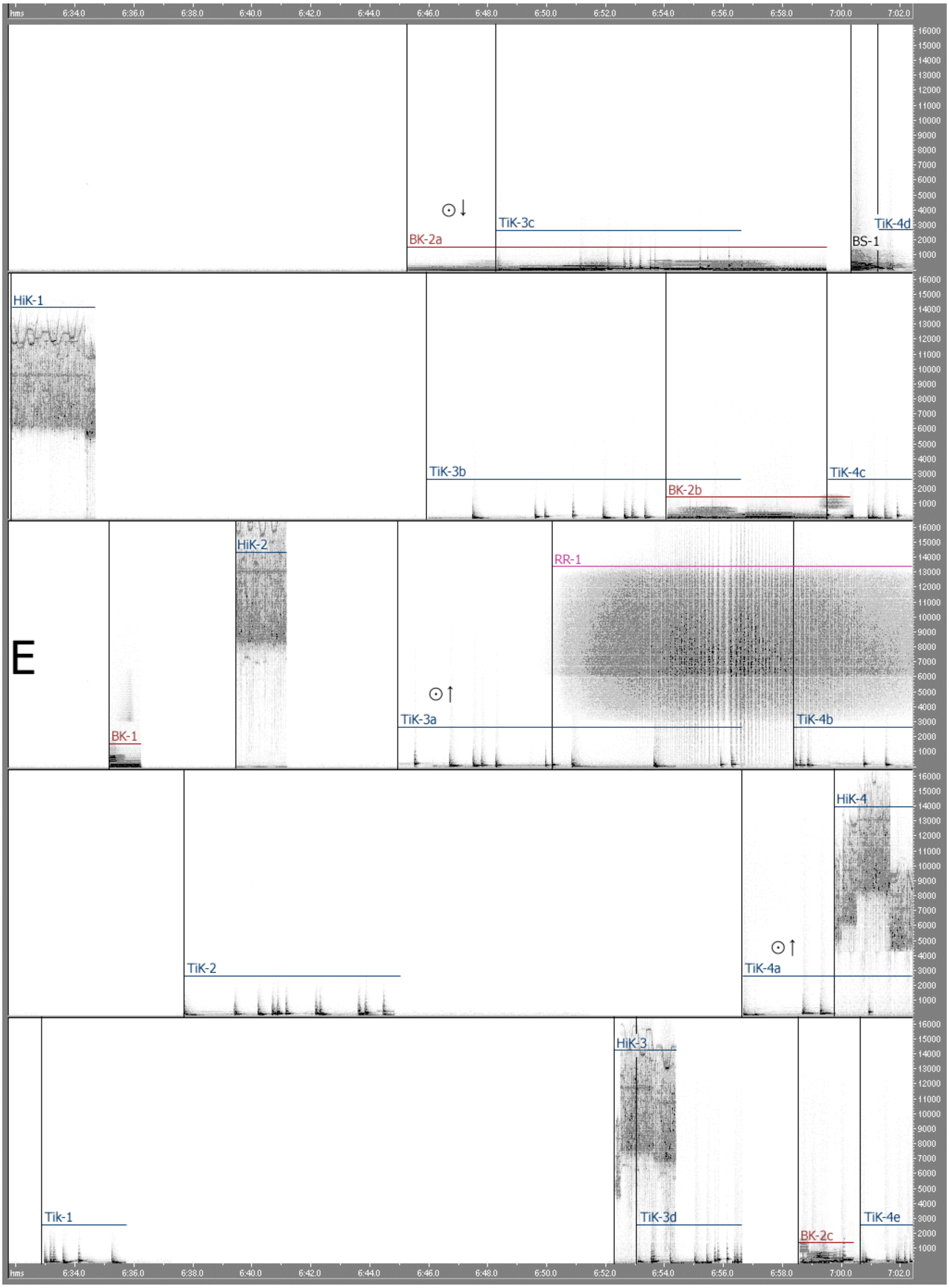

55e
Ora 8c
Igr-18b
56c
G-15
und
57a
Ora 10a
Igr-22
59b
G-18
Herrn
59e
Ora 12c
Igr-26
55d
G-14
-gen
56a
Ora 9a
56e
G-16
Tau
57b
Ora 10b
Igr-23
54c
G-13
Re-
55b
Bgr-8
56b
Ora 9b
Igr-20
58a
Ora 11
Igr-23
58b
G-17
den
54b
G-12
-ler
55a
Ora 8a
Igr-17
55f
Bgr-9
56d
Ora 9c
57c
Bgr-10
59a
Ora 12a
Igr-24
Igr-25
59d
G-19
preist
54a
G-11
al-
55c
Ora 8b
Igr-19
Igr-18a
56f
Ora 9d
59c
Ora 12b

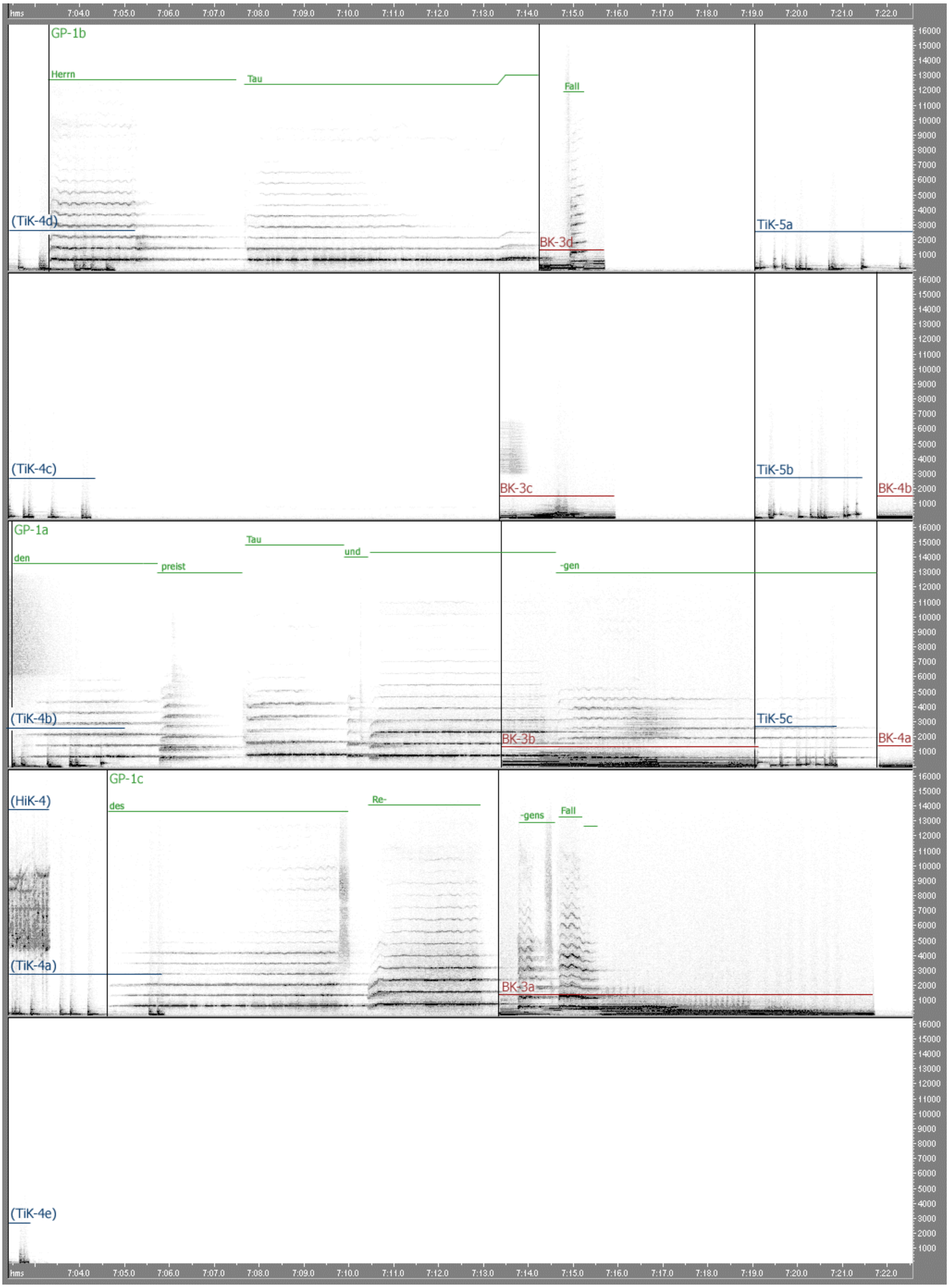

60
IS-3
62e
Bgr-12
63c
Ora e
Miß e
64d
G-21
Win-
61a
GS-2a [tr. GK-9r]
Preiset den Herrn
Jubelt dem Herrn
62f
Ora d
Miß d
63a
Hiß 4
64b
Ora 14
Igr-27
64f
Igr-28
61b
GS-2b [tr. GK-9r]
Preiset den Herrn
Jubelt dem Herrn
62c
62d
Ora c
Miß c
Bgr-11
63b
Bgr-13
64a
IS-4
64e
G-22
-de
61c
GS-2c [tr. GK-9r]
Preiset den Herrn
Jubelt dem Herrn
62b
Hiß 3b
Ora b
Miß b
61d
Ora a
Miß a
62a
Hiß 3a
64c
G-20
ihr
Pause
(60)
I-Na 1
(61-63)
I-Kü
(64)

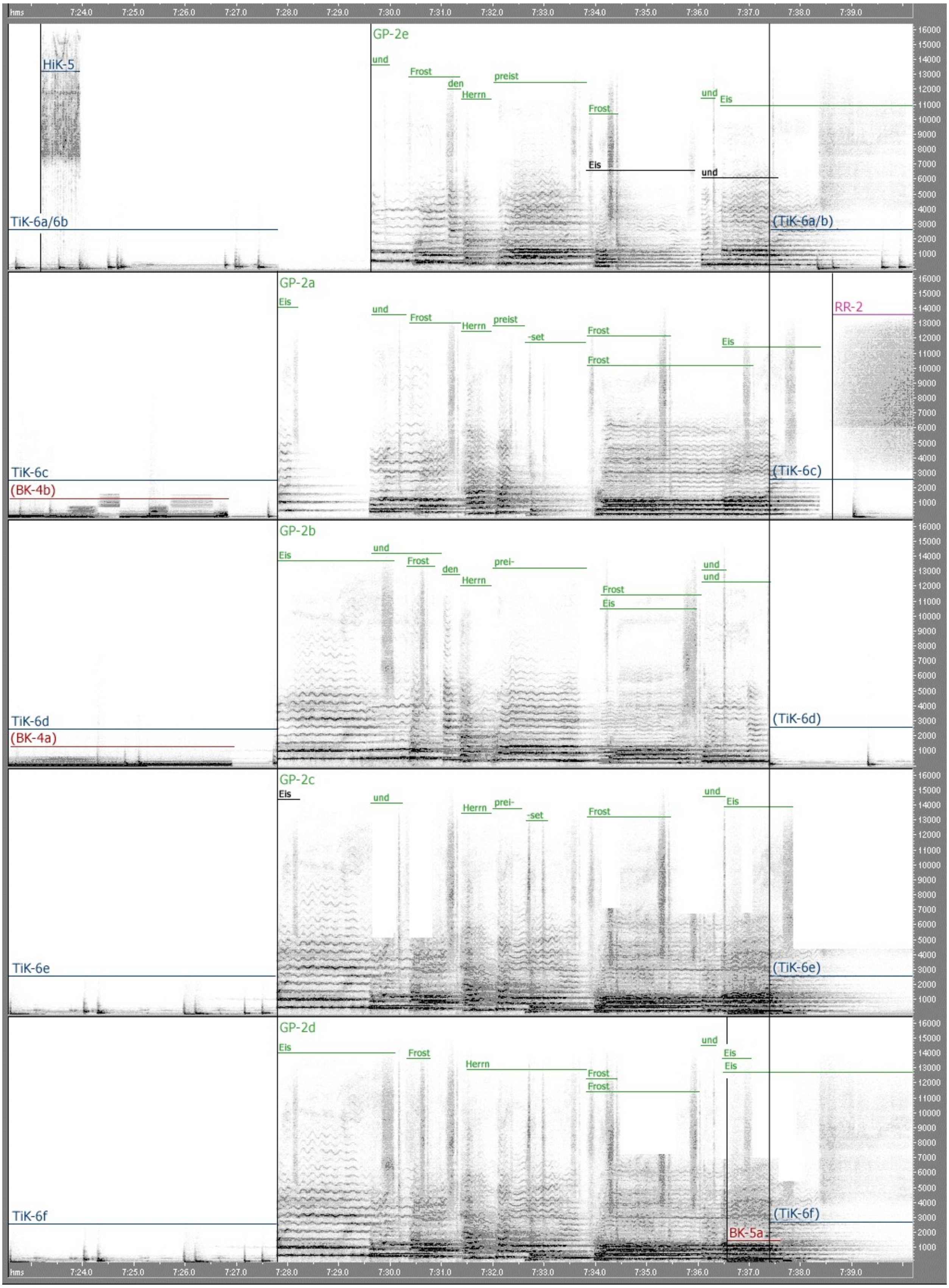

68d
Miβ 2c
78a
GA-2
den Herrn preiset
65a
Hi
66a
GK-3
lobt ihn
67b
68c
Miβ 2b
75b
Hiβ 7b
Miβ 6b
76/77 Miβ 7
78b
IK-8r
79
GK-12r
Jubelt
80
81a
GK-7r
Jubelt dem Herrn
ihr Himmel droben
65c
Miβ 1a
65d
Miβ 1b
65e
Miβ 1c
66b
Ora
Mi
67a
Hiβ 5
68a
Miβ 2a
74
75a
Hiβ 7a
Miβ 6a
D
68b
IK-8r
70b
71
72
73
Hiβ 6b
Miβ 3b
Miβ 4
Miβ 5
75c
Bgr-14
81b
GA-3
Feuer
I-Na-2
(65)
65b
IS-5
GS-3 [tr. GK-8r]
alle Wasser ihr
I-Na-1
(66-67)
I-Na-2
(68-77)
68e
69
70a
Hiβ 6a
Miβ 2d
Miβ 3a

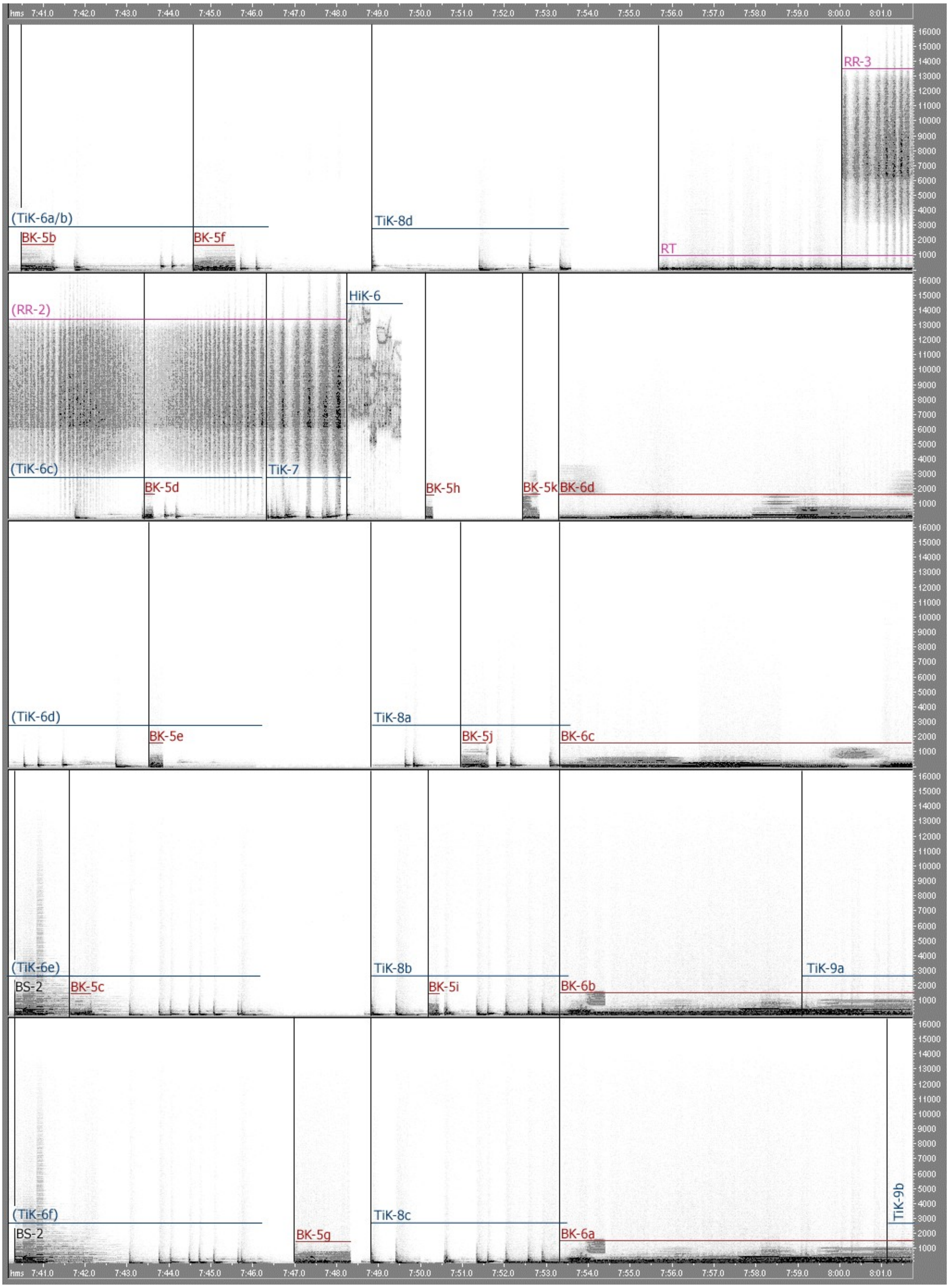

82a
IK-7r
83a
GK-5r
Preiset den Herrn
85a
GK-1r
Jubelt dem Herrn
87a
GK-3r
lobt ihn
88a
IK-6r
82b
IK-7r
83b
GK-5r
Preiset den Herrn
85b
GK-1r
Jubelt dem Herrn
87b
GK-3r
lobt ihn
88b
IK-6r
83c
GA-4
Sommersglut
84
86b
GA-6
-set
87d
GA-7
Herrn
85c
GA-5
Prei-
86a
Hi
82c
G-23
und
87c
G-24
den
89
Hi

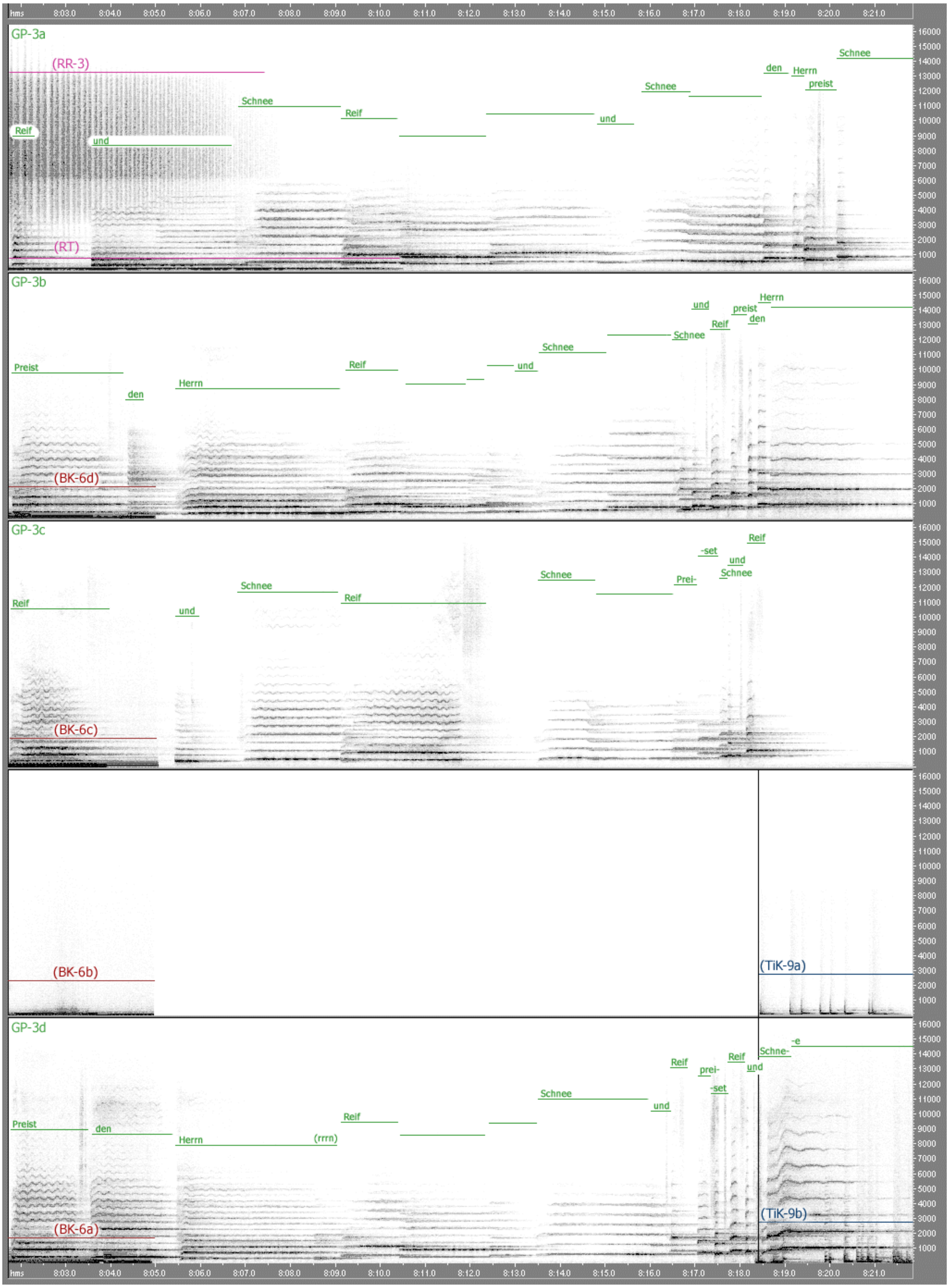

90
G-25
Käl-
Hi
91
G-26
-te
92
G-27
und
93
G-28
star-
94
G-29
-rer
95
G-30
Win-
96
G-31
-ter
Dβ
(Hi)

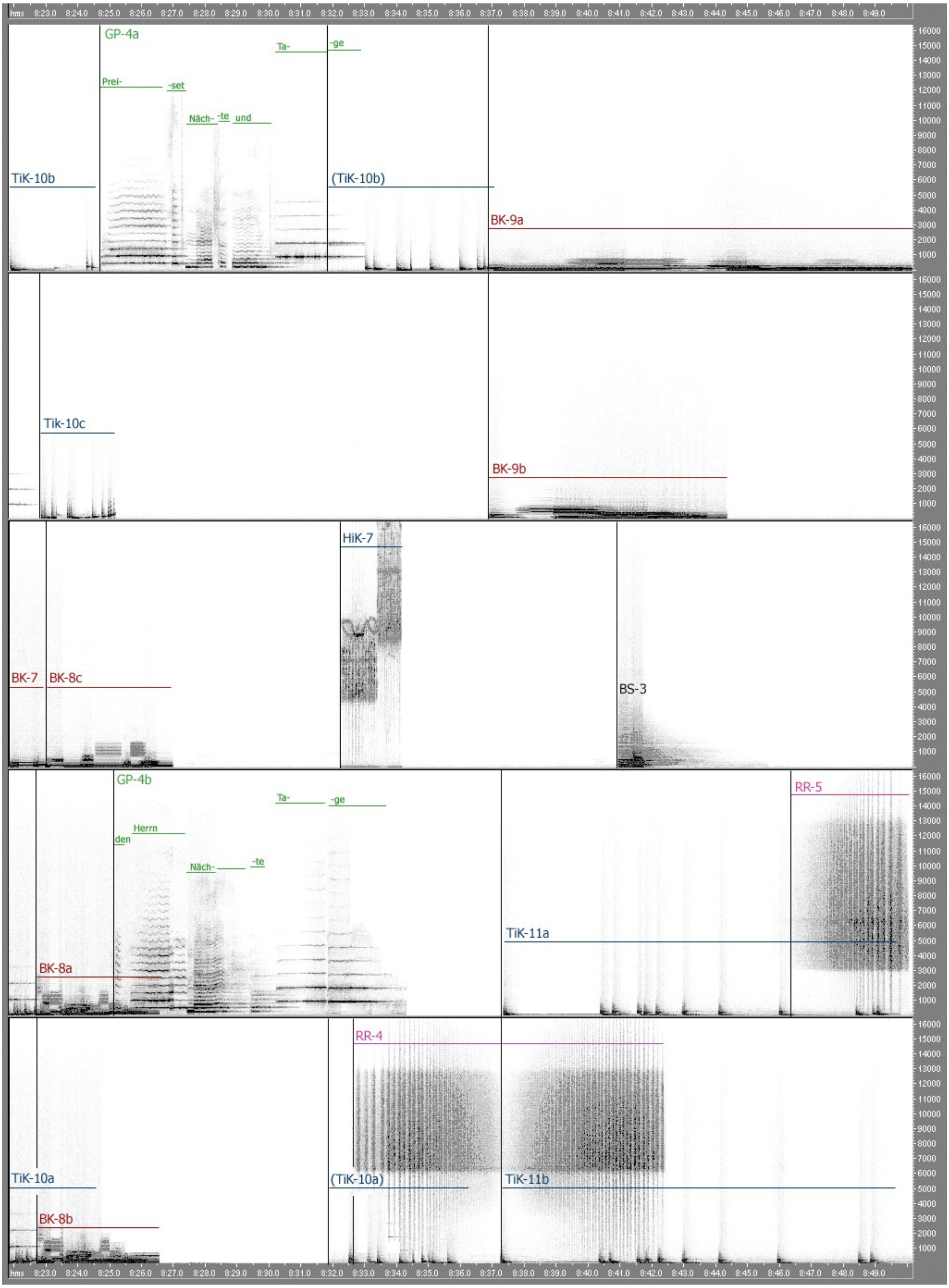

BK-2a
TiK-3c
BS-1
TiK-4d
HiK-1
TiK-3b
BK-2b
TiK-4c
E
BK-1
HiK-2
TiK-3a
RR-1
TiK-4b
TiK-2
TiK-4a
HiK-4
Tik-1
HiK-3
TiK-3d
BK-2c
TiK-4e

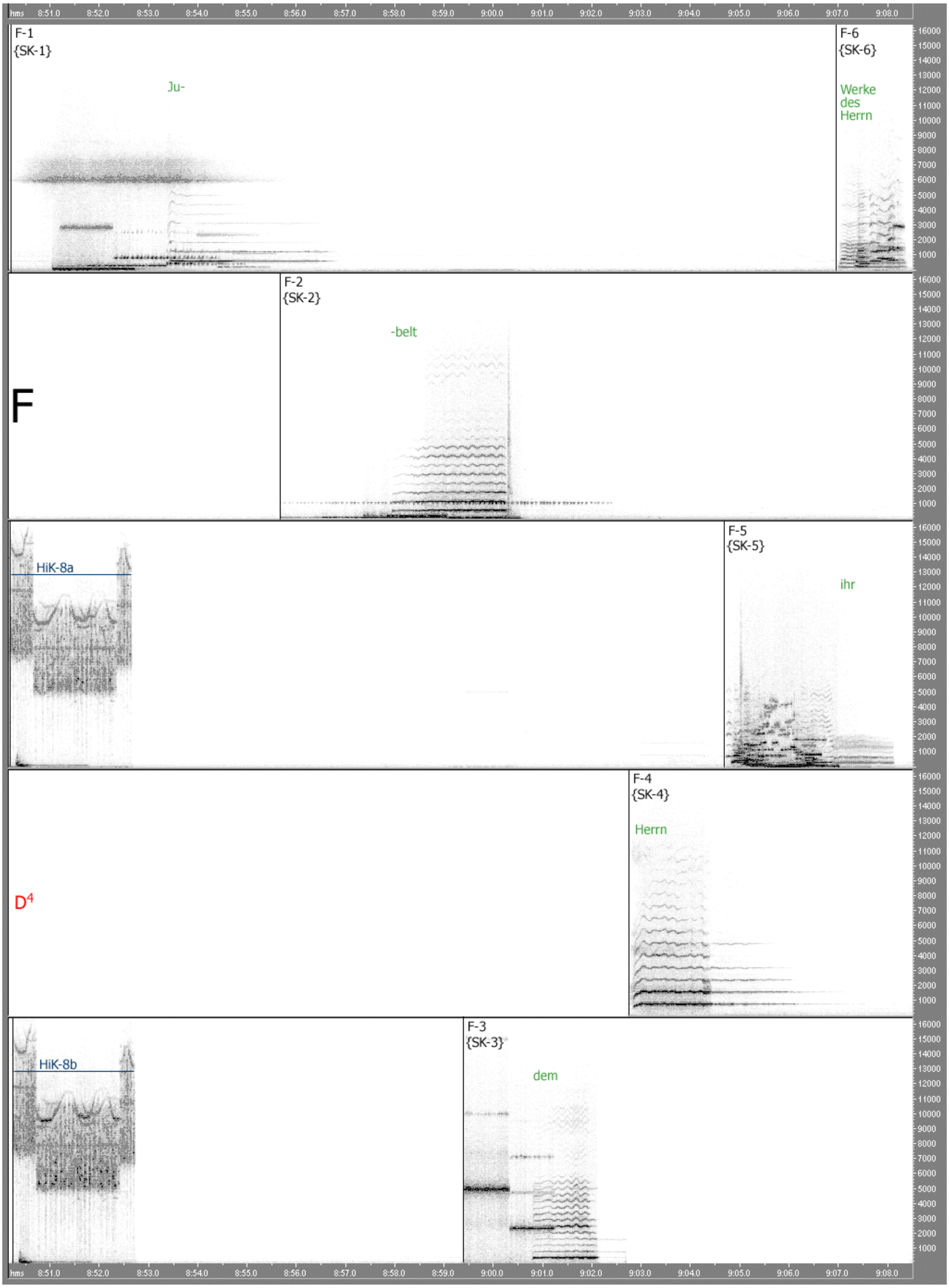

GP-1b
Herrn
Tau
Fall
(TiK-4d)
BK-3d
TiK-5a
(TiK-4c)
BK-3c
TiK-5b
BK-4b
GP-1a
den
preist
Tau
und
-gen
(TiK-4b)
BK-3b
TiK-5c
BK-4a
GP-1c
(HiK-4)
des
Re-
-gens
Fall
(TiK-4a)
BK-3a
(TiK-4e)

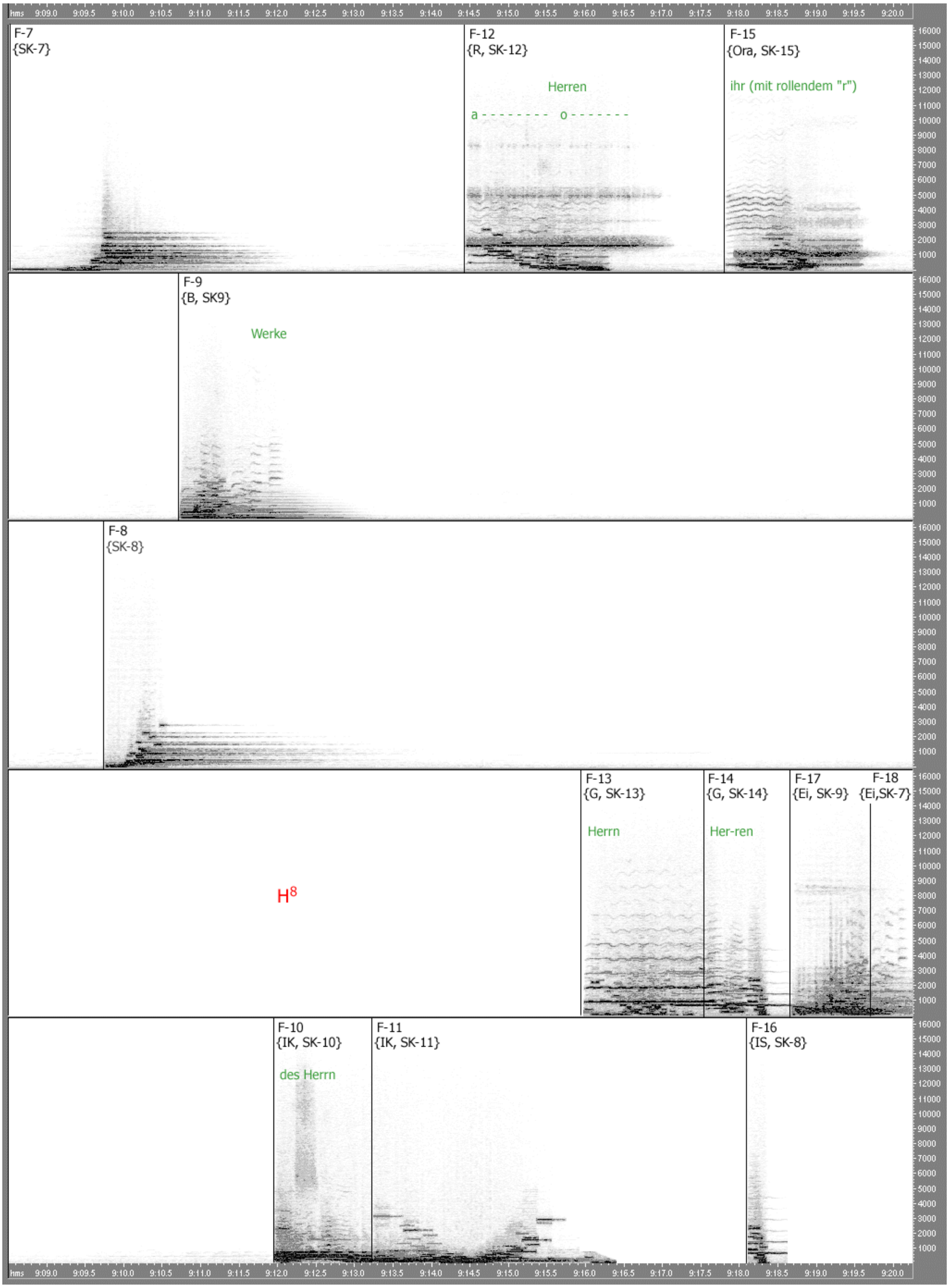

hms
7:24.0
7:25.0
7:26.0
7:27.0
7:28.0
7:29.0
7:30.0
7:31.0
7:32.0
7:33.0
7:34.0
7:35.0
7:36.0
7:37.0
7:38.0
7:39.0
16000
15000
14000
13000
12000
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
HiK-5
TiK-6a/6b
GP-2e
und
Frost
den
Herrn
preist
Frost
Eis
und
Eis
und
(TiK-6a/b)
TiK-6c
(BK-4b)
GP-2a
Eis
und
Frost
Herrn
preist
-set
Frost
Frost
Eis
RR-2
(TiK-6c)
TiK-6d
(BK-4a)
GP-2b
Eis
und
Frost
den
Herrn
prei-
Frost
Eis
und
und
(TiK-6d)
TiK-6e
GP-2c
Eis
und
Herrn
prei-
-set
Frost
und
Eis
(TiK-6e)
TiK-6f
GP-2d
Eis
Frost
Herrn
Frost
Frost
und
Eis
Eis
(TiK-6f)
BK-5a


(TiK-6a/b)
BK-5b
BK-5f
TiK-8d
RT
RR-3
(RR-2)
HiK-6
(TiK-6c)
BK-5d
TiK-7
BK-5h
BK-5k
BK-6d
(TiK-6d)
BK-5e
TiK-8a
BK-5j
BK-6c
(TiK-6e)
BS-2
BK-5c
TiK-8b
BK-5i
BK-6b
TiK-9a
(TiK-6f)
BS-2
BK-5g
TiK-8c
BK-6a
TiK-9b

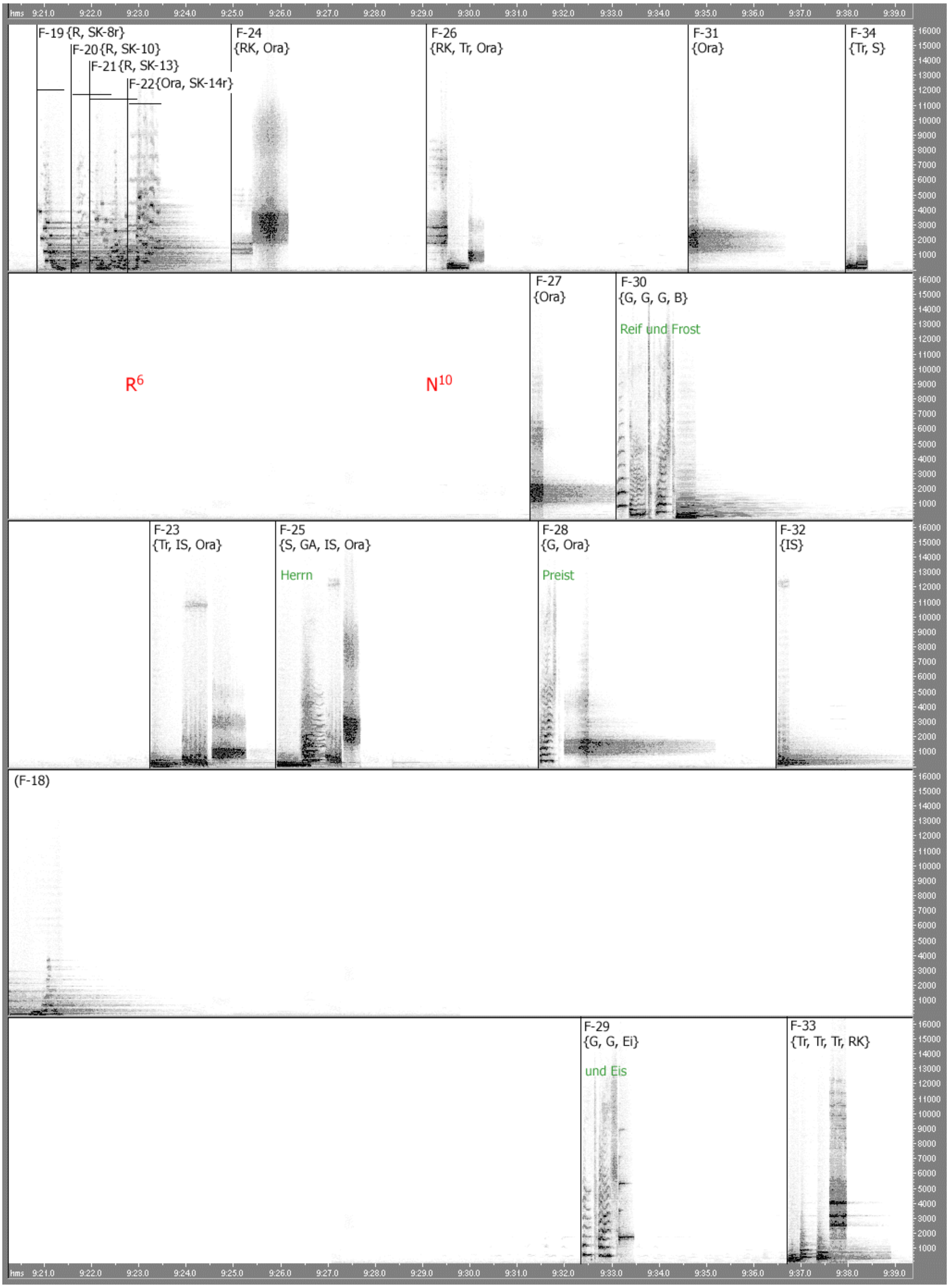

GP-3a
(RR-3)
Reif
und
Schnee
Reif
und
Schnee
den
Herrn
preist
Schnee
(RT)
GP-3b
Preist
den
Herrn
Reif
und
Schnee
Schnee
und
Reif
preist
den
Herrn
(BK-6d)
GP-3c
Reif
und
Schnee
Reif
Schnee
Prei-
-set
und
Schnee
Reif
(BK-6c)
(BK-6b)
(TiK-9a)
GP-3d
Preist
den
Herrn
(rrrn)
Reif
Schnee
und
Reif
prei-
-set
Reif
und
Schne-
-e
(BK-6a)
(TiK-9b)

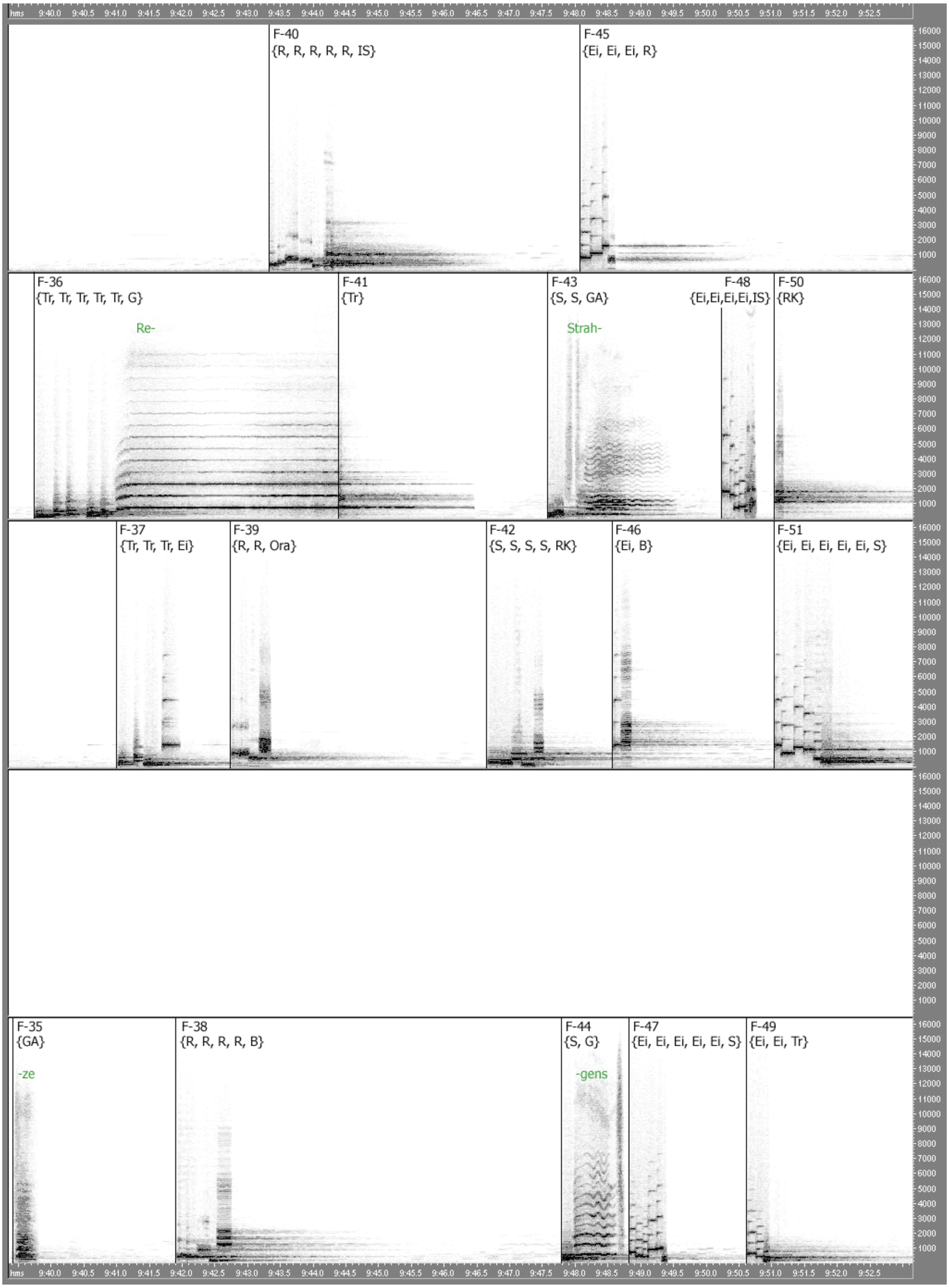

GP-4a
Prei-
-set
Näch-
-te
und
Ta-
-ge
TiK-10b
(TiK-10b)
BK-9a
Tik-10c
BK-9b
HiK-7
BK-7
BK-8c
BS-3
GP-4b
den
Herrn
Näch-
-te
Ta-
-ge
RR-5
TiK-11a
BK-8a
RR-4
TiK-10a
(TiK-10a)
TiK-11b
BK-8b

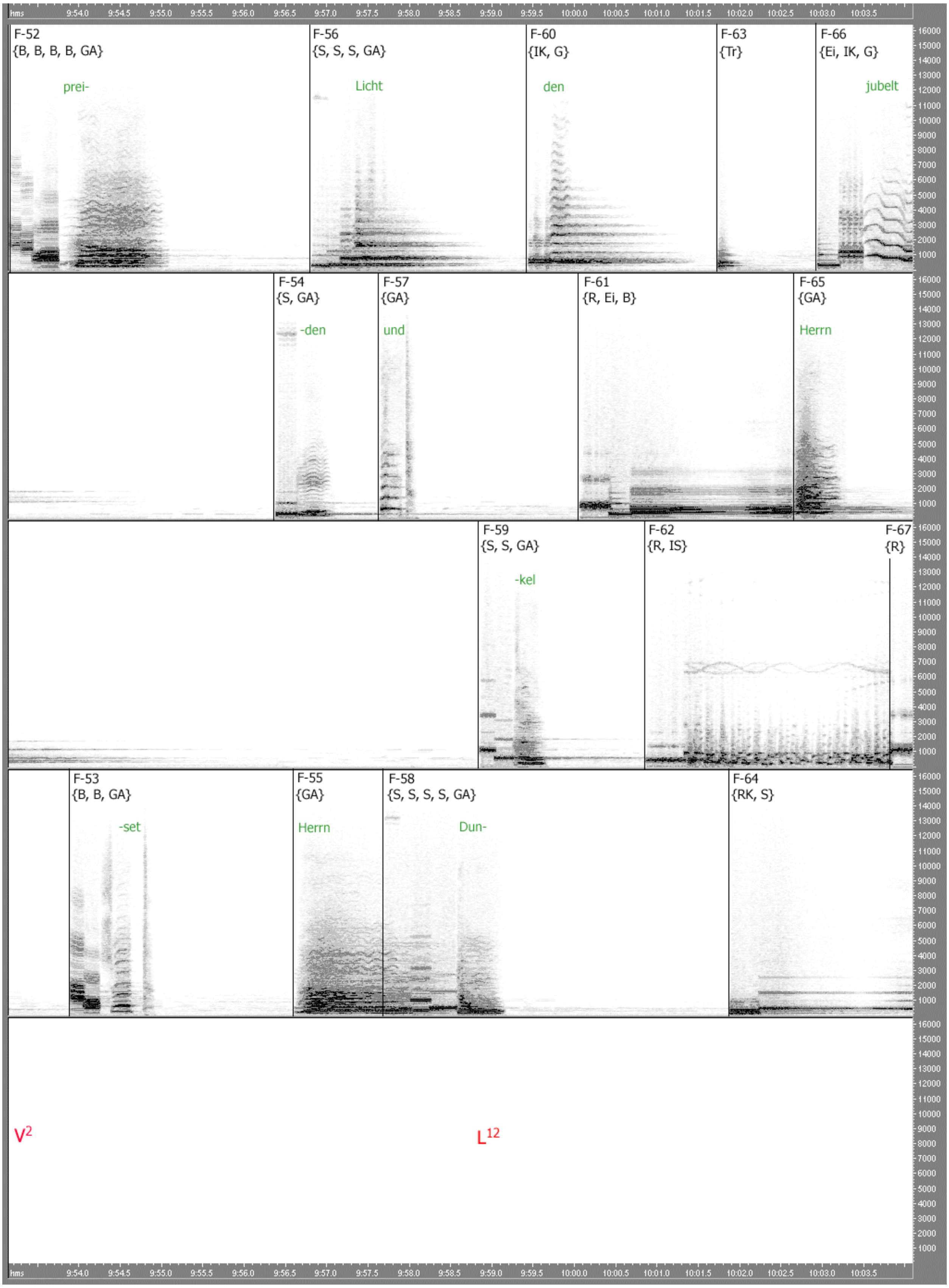

F-1
{SK-1}
Ju-
F-6
{SK-6}
Werke
des
Herrn
F
F-2
{SK-2}
-belt
HiK-8a
F-5
{SK-5}
ihr
D4
F-4
{SK-4}
Herrn
HiK-8b
F-3
{SK-3}
dem

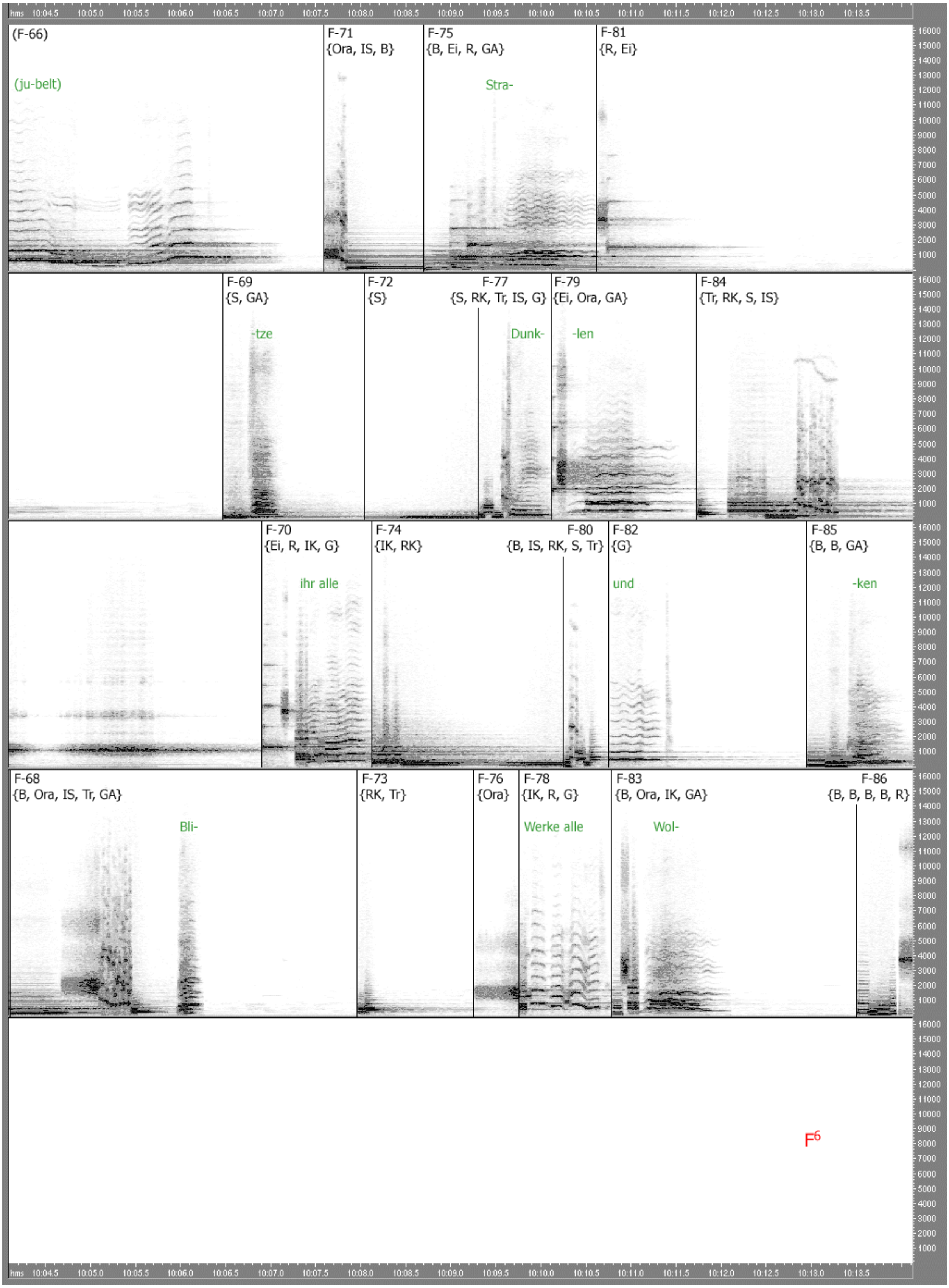


F-7
{SK-7}
F-12
{R, SK-12}
Herren
a - - - - - - - - o - - - - - - -
F-15
{Ora, SK-15}
ihr (mit rollendem "r")
F-9
{B, SK9}
Werke
F-8
{SK-8}
H8
F-13
{G, SK-13}
Herrn
F-14
{G, SK-14}
Her-ren
F-17
{Ei, SK-9}
F-18
{Ei,SK-7}
F-10
{IK, SK-10}
des Herrn
F-11
{IK, SK-11}
F-16
{IS, SK-8}

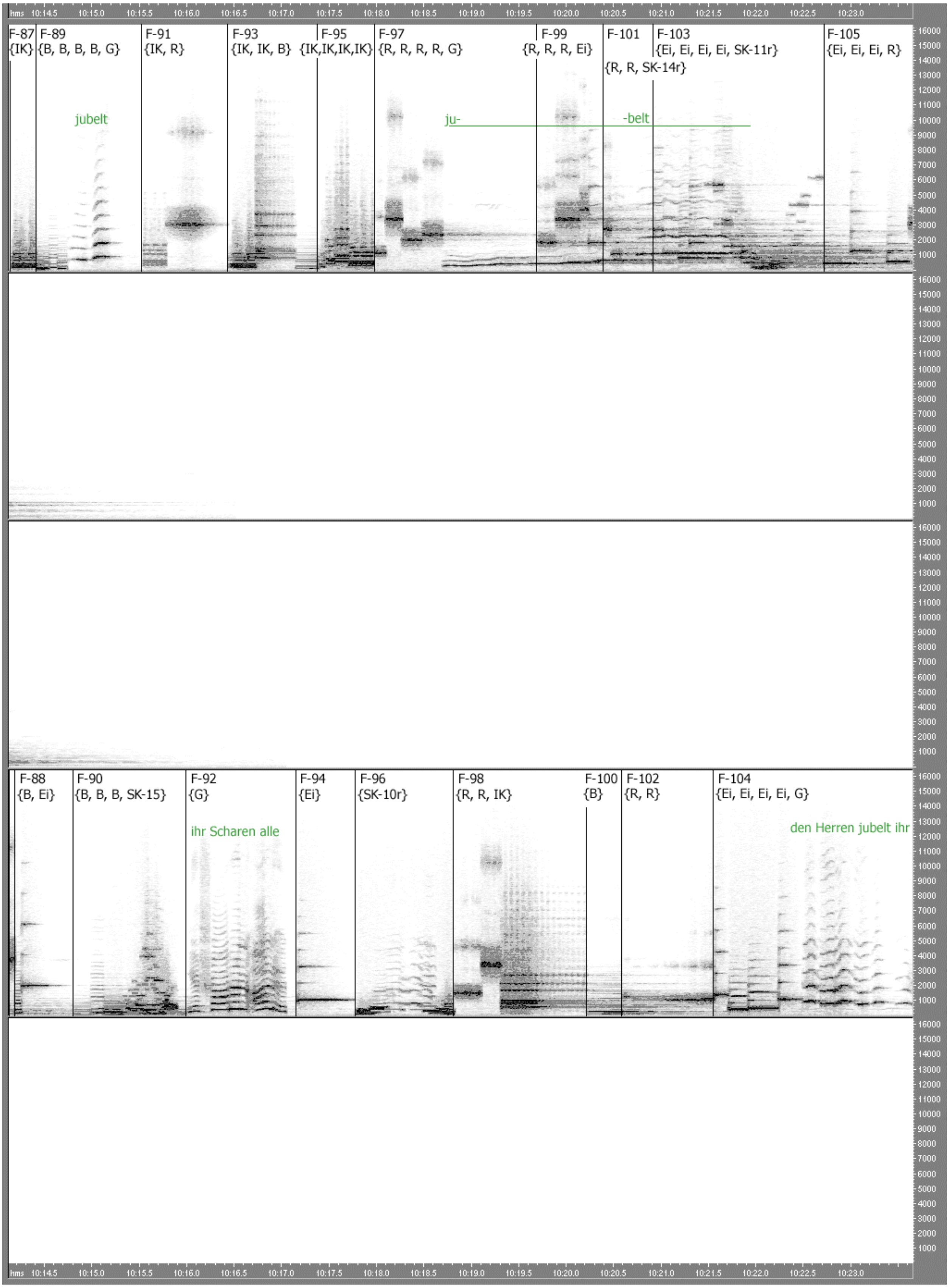

F-19 {R, SK-8r}
F-20 {R, SK-10}
F-21 {R, SK-13}
F-22 {Ora, SK-14r}
F-24 {RK, Ora}
F-26 {RK, Tr, Ora}
F-31 {Ora}
F-34 {Tr, S}
R6
N10
F-27 {Ora}
F-30 {G, G, G, B}
Reif und Frost
F-23 {Tr, IS, Ora}
F-25 {S, GA, IS, Ora}
Herrn
F-28 {G, Ora}
Preist
F-32 {IS}
(F-18)
F-29 {G, G, Ei}
und Eis
F-33 {Tr, Tr, Tr, RK}

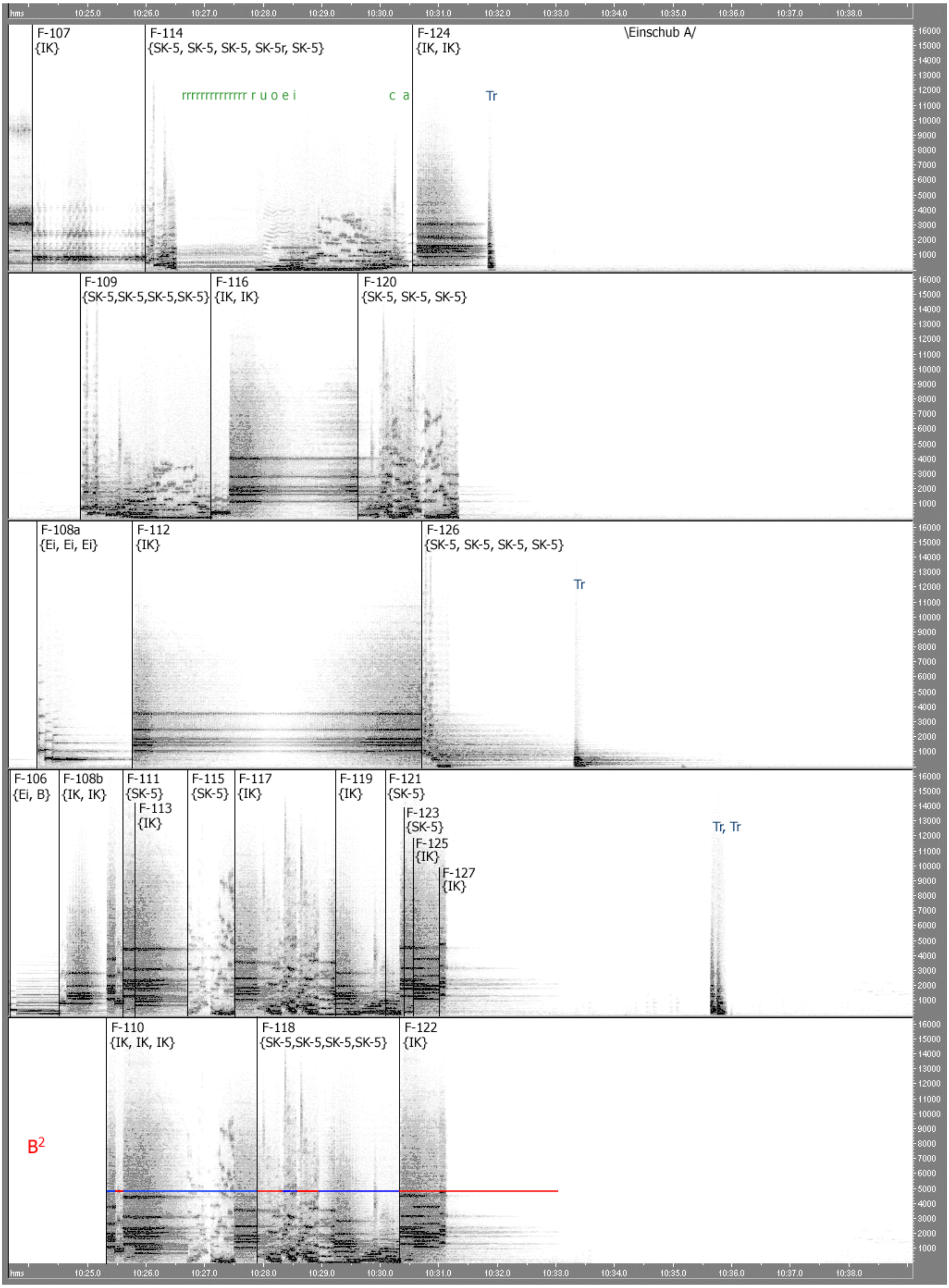

F-40
{R, R, R, R, R, IS}
F-45
{Ei, Ei, Ei, R}
F-36
{Tr, Tr, Tr, Tr, Tr, G}
Re-
F-41
{Tr}
F-43
{S, S, GA}
Strah-
F-48
{Ei,Ei,Ei,Ei,IS}
F-50
{RK}
F-37
{Tr, Tr, Tr, Ei}
F-39
{R, R, Ora}
F-42
{S, S, S, S, RK}
F-46
{Ei, B}
F-51
{Ei, Ei, Ei, Ei, Ei, S}
F-35
{GA}
-ze
F-38
{R, R, R, R, B}
F-44
{S, G}
-gens
F-47
{Ei, Ei, Ei, Ei, Ei, S}
F-49
{Ei, Ei, Tr}

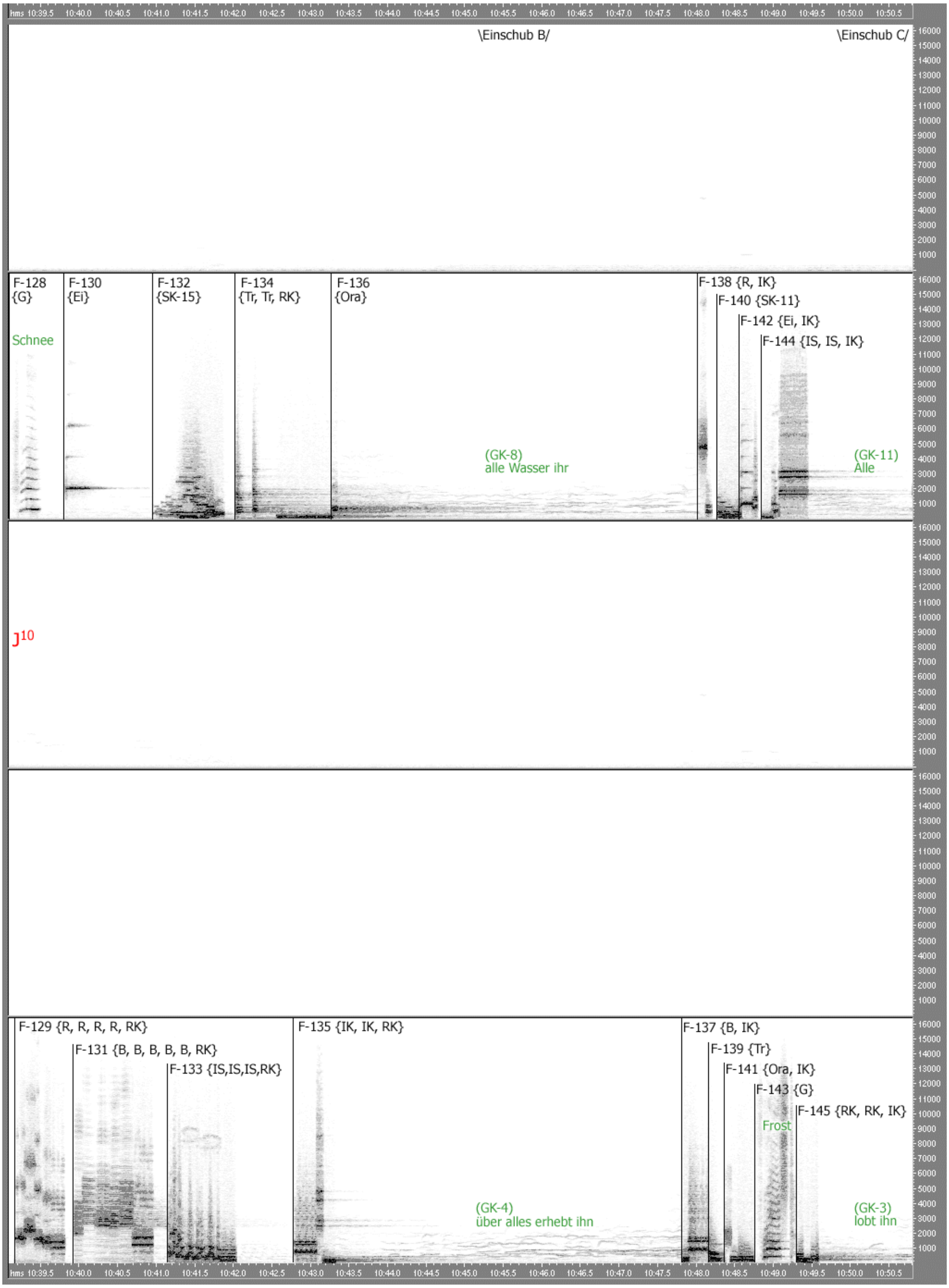

F-52
{B, B, B, B, GA}
prei-
F-56
{S, S, S, GA}
Licht
F-60
{IK, G}
den
F-63
{Tr}
F-66
{Ei, IK, G}
jubelt
F-54
{S, GA}
-den
F-57
{GA}
und
F-61
{R, Ei, B}
F-65
{GA}
Herrn
F-59
{S, S, GA}
-kel
F-62
{R, IS}
F-67
{R}
F-53
{B, B, GA}
-set
F-55
{GA}
Herrn
F-58
{S, S, S, S, GA}
Dun-
F-64
{RK, S}
V2
L12

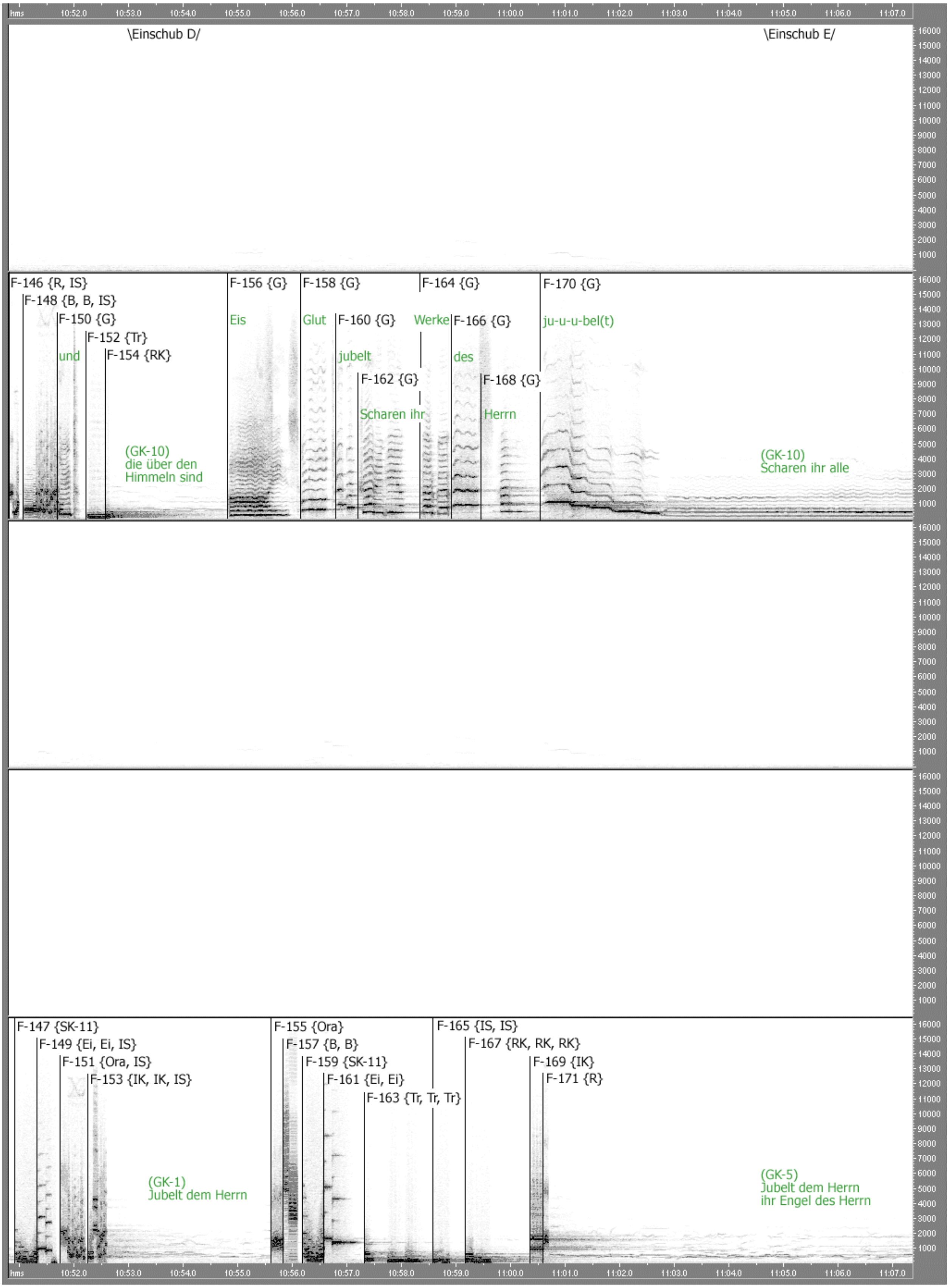


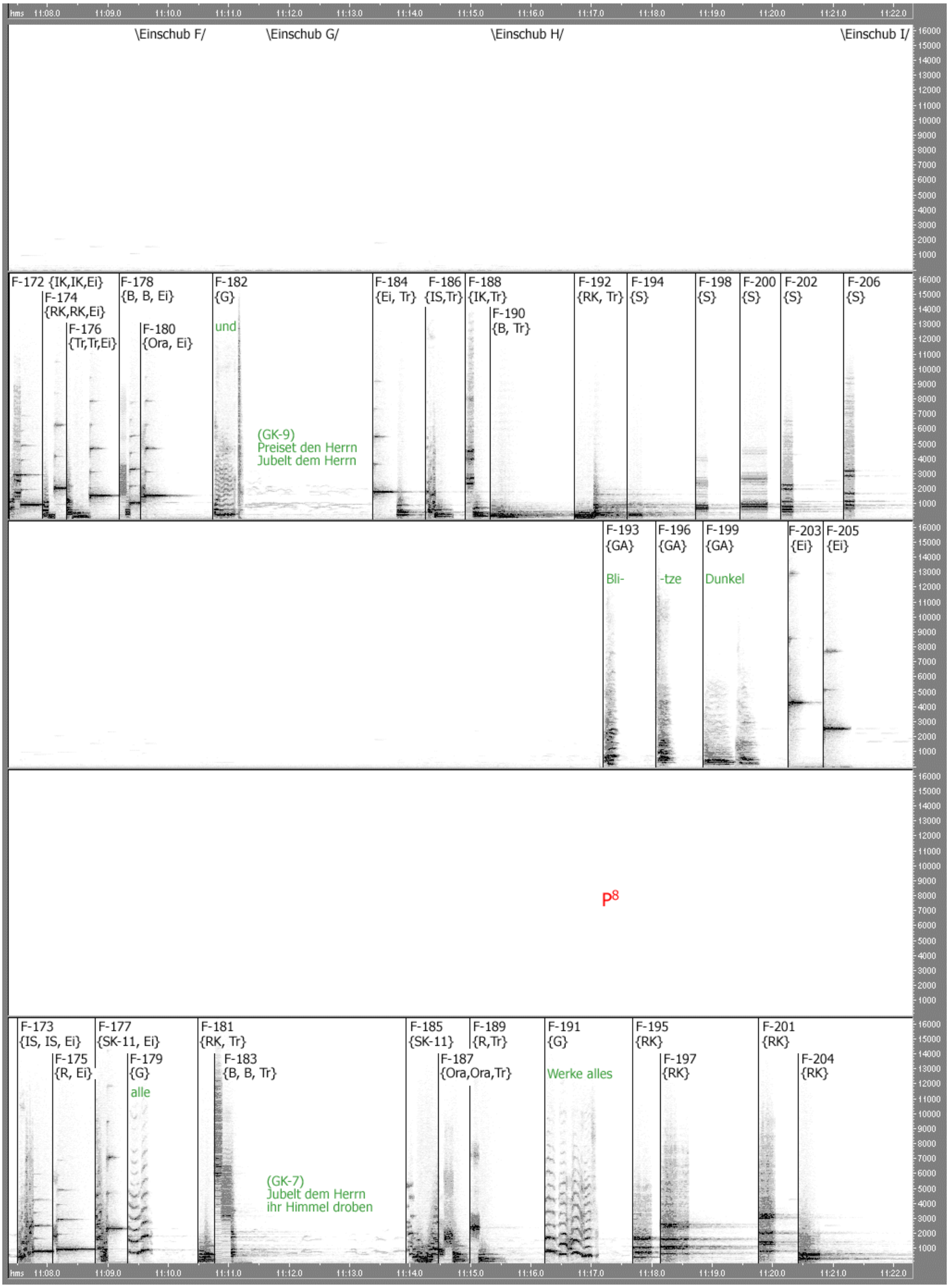
(F-66)
(ju-belt)
F-71
{Ora, IS, B}
F-75
{B, Ei, R, GA}
Stra-
F-81
{R, Ei}
F-69
{S, GA}
-tze
F-72
{S}
F-77
{S, RK, Tr, IS, G}
Dunk-
F-79
{Ei, Ora, GA}
-len
F-84
{Tr, RK, S, IS}
F-70
{Ei, R, IK, G}
ihr alle
F-74
{IK, RK}
F-80
{B, IS, RK, S, Tr}
F-82
{G}
und
F-85
{B, B, GA}
-ken
F-68
{B, Ora, IS, Tr, GA}
Bli-
F-73
{RK, Tr}
F-76
{Ora}
F-78
{IK, R, G}
Werke alle
F-83
{B, Ora, IK, GA}
Wol-
F-86
{B, B, B, B, R}
F6

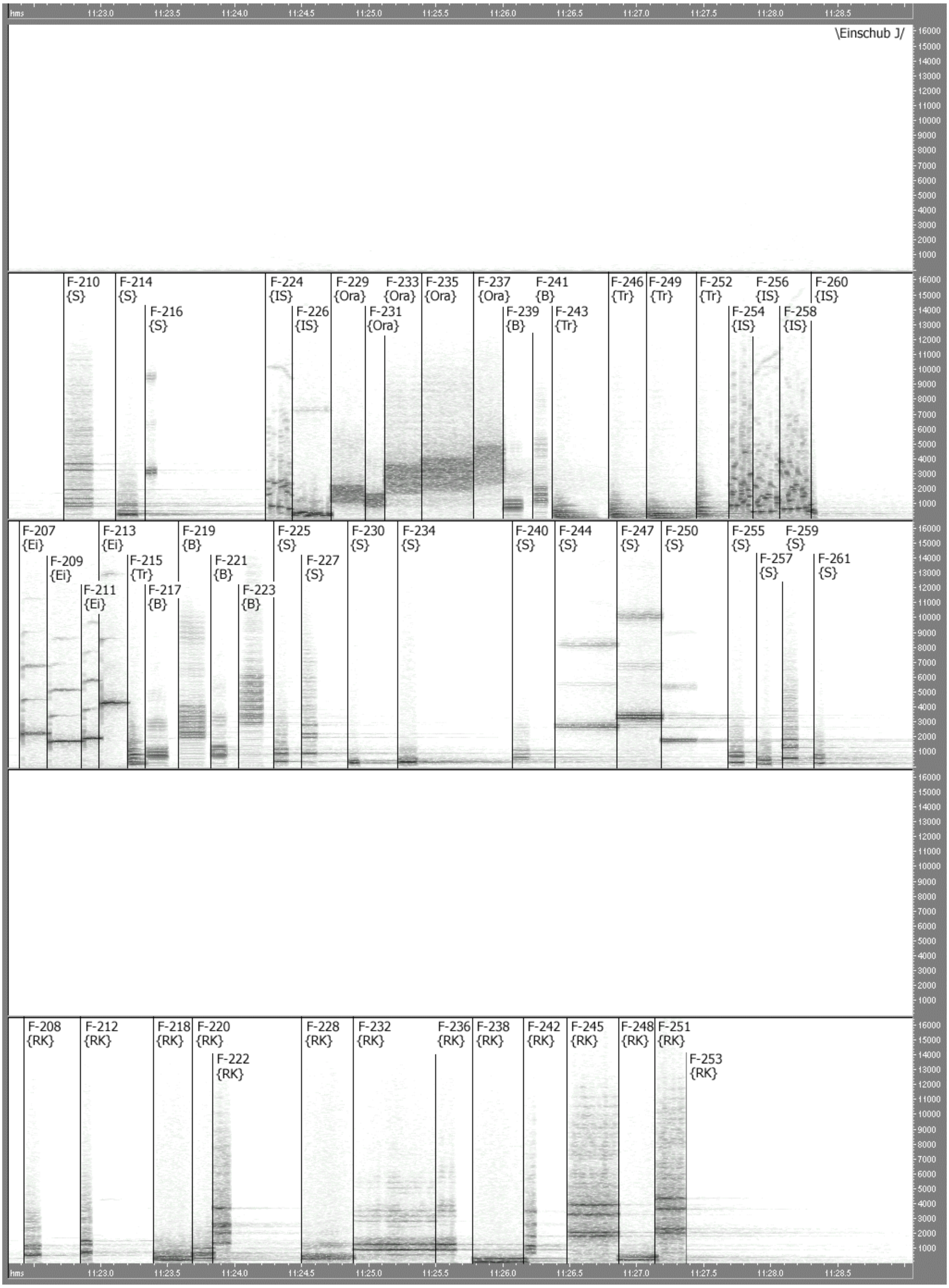

F-87
{IK}
F-89
{B, B, B, B, G}
jubelt
F-91
{IK, R}
F-93
{IK, IK, B}
F-95
{IK,IK,IK,IK}
F-97
{R, R, R, R, G}
ju-
F-99
{R, R, R, Ei}
F-101
{R, R, SK-14r}
-belt
F-103
{Ei, Ei, Ei, Ei, SK-11r}
F-105
{Ei, Ei, Ei, R}
F-88
{B, Ei}
F-90
{B, B, B, SK-15}
F-92
{G}
ihr Scharen alle
F-94
{Ei}
F-96
{SK-10r}
F-98
{R, R, IK}
F-100
{B}
F-102
{R, R}
F-104
{Ei, Ei, Ei, Ei, G}
den Herren jubelt ihr

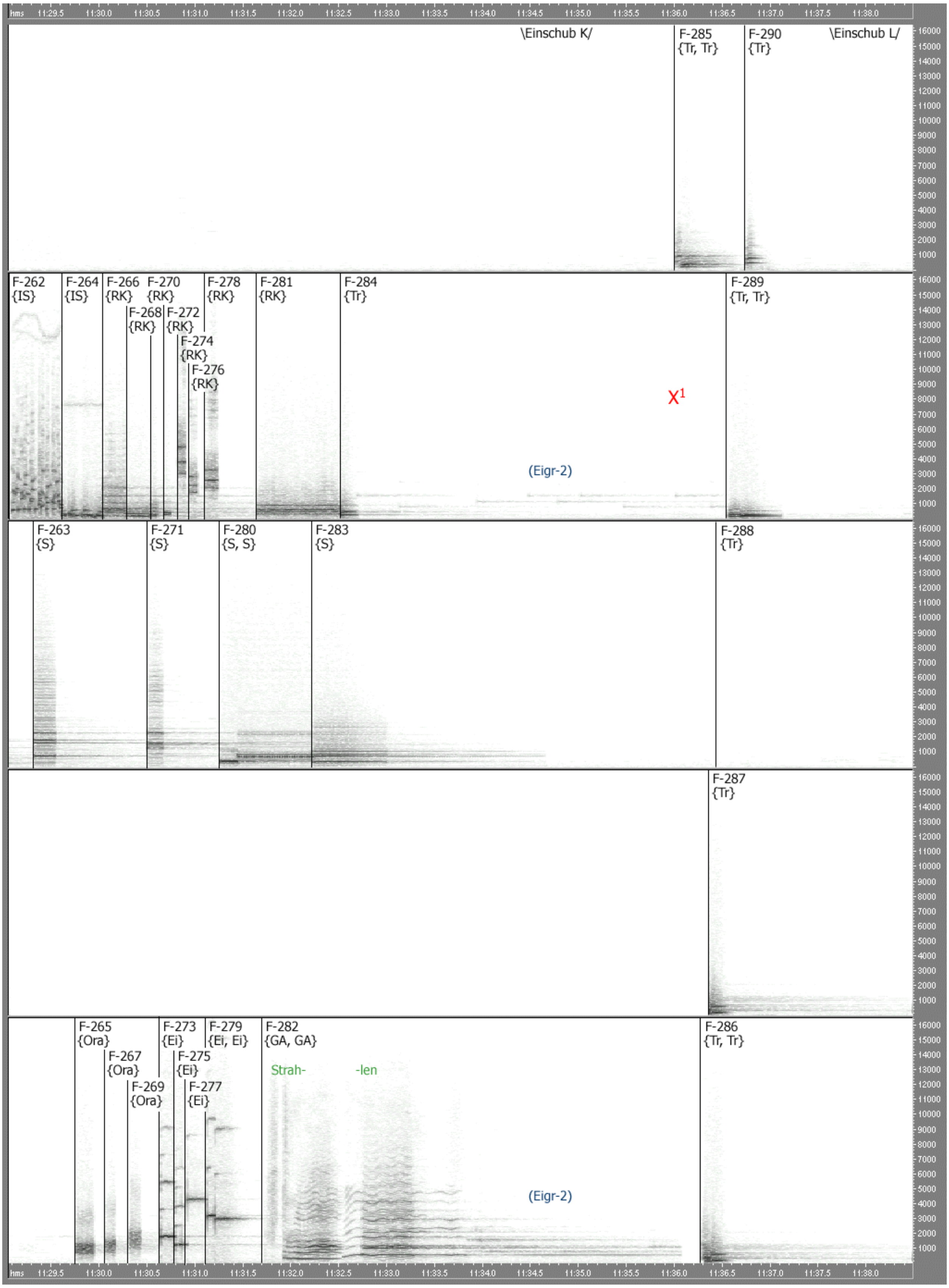

F-107
{IK}
F-114
{SK-5, SK-5, SK-5, SK-5r, SK-5}
rrrrrrrrrrrrrr r u o e i
c a
F-124
{IK, IK}
Tr
\Einschub A/
F-109
{SK-5,SK-5,SK-5,SK-5}
F-116
{IK, IK}
F-120
{SK-5, SK-5, SK-5}
F-108a
{Ei, Ei, Ei}
F-112
{IK}
F-126
{SK-5, SK-5, SK-5, SK-5}
Tr
F-106
{Ei, B}
F-108b
{IK, IK}
F-111
{SK-5}
F-113
{IK}
F-115
{SK-5}
F-117
{IK}
F-119
{IK}
F-121
{SK-5}
F-123
{SK-5}
F-125
{IK}
F-127
{IK}
Tr, Tr
B2
F-110
{IK, IK, IK}
F-118
{SK-5,SK-5,SK-5,SK-5}
F-122
{IK}

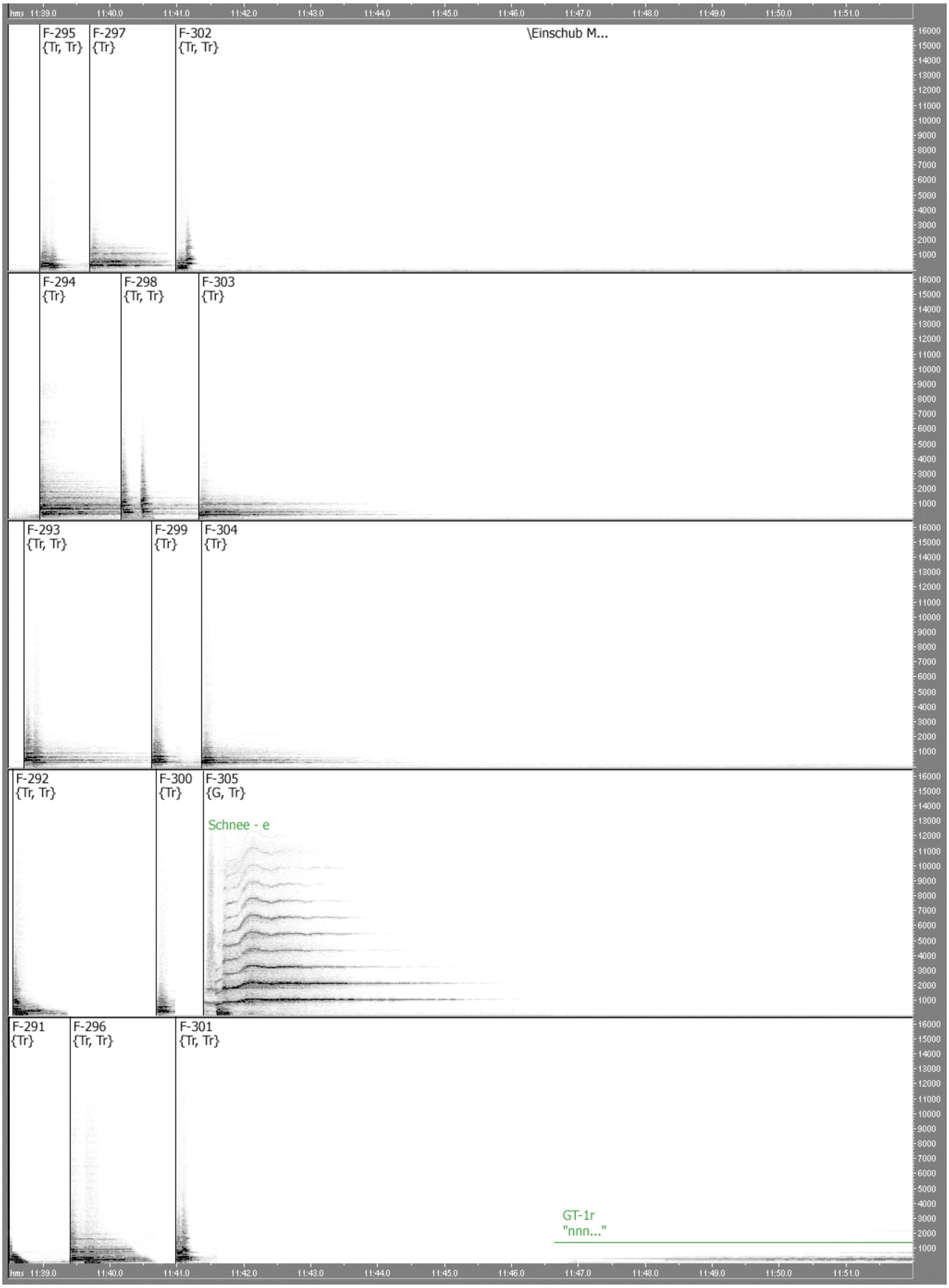

\Einschub B/
\Einschub C/
F-128 {G}
Schnee
F-130 {Ei}
F-132 {SK-15}
F-134 {Tr, Tr, RK}
F-136 {Ora}
(GK-8) alle Wasser ihr
F-138 {R, IK}
F-140 {SK-11}
F-142 {Ei, IK}
F-144 {IS, IS, IK}
(GK-11) Alle
J10
F-129 {R, R, R, R, RK}
F-131 {B, B, B, B, B, RK}
F-133 {IS,IS,IS,RK}
F-135 {IK, IK, RK}
(GK-4) über alles erhebt ihn
F-137 {B, IK}
F-139 {Tr}
F-141 {Ora, IK}
F-143 {G}
Frost
F-145 {RK, RK, IK}
(GK-3) lobt ihn

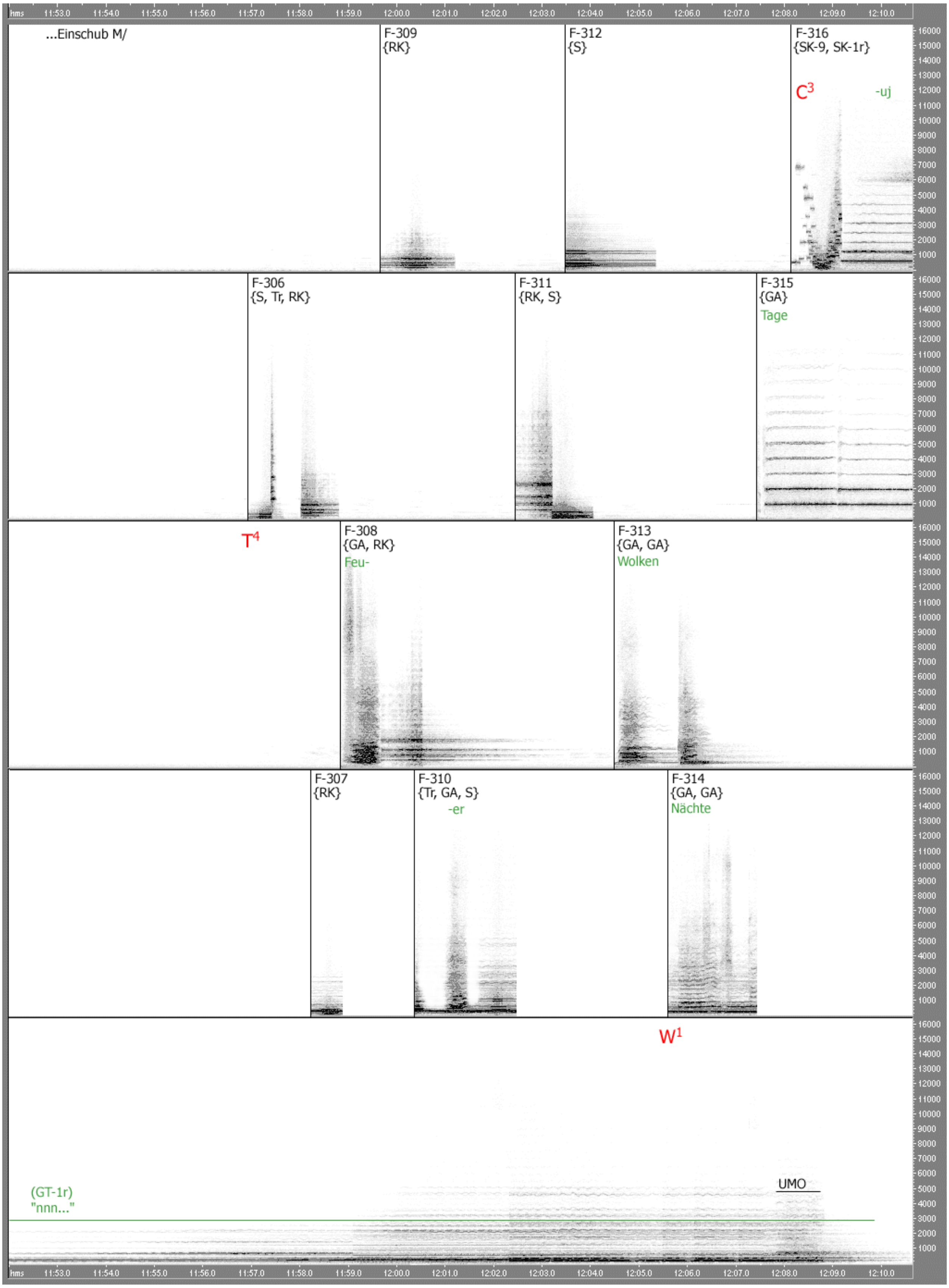

\Einschub D/
\Einschub E/
F-146 {R, IS}
F-148 {B, B, IS}
F-150 {G}
und
F-152 {Tr}
F-154 {RK}
(GK-10)
die über den
Himmeln sind
F-156 {G}
Eis
F-158 {G}
Glut
F-160 {G}
jubelt
F-162 {G}
Scharen ihr
F-164 {G}
Werke
F-166 {G}
des
F-168 {G}
Herrn
F-170 {G}
ju-u-u-bel(t)
(GK-10)
Scharen ihr alle
F-147 {SK-11}
F-149 {Ei, Ei, IS}
F-151 {Ora, IS}
F-153 {IK, IK, IS}
(GK-1)
Jubelt dem Herrn
F-155 {Ora}
F-157 {B, B}
F-159 {SK-11}
F-161 {Ei, Ei}
F-163 {Tr, Tr, Tr}
F-165 {IS, IS}
F-167 {RK, RK, RK}
F-169 {IK}
F-171 {R}
(GK-5)
Jubelt dem Herrn
ihr Engel des Herrn


\Einschub F/
\Einschub G/
\Einschub H/
\Einschub I/
F-172 {IK,IK,Ei}
F-174 {RK,RK,Ei}
F-176 {Tr,Tr,Ei}
F-178 {B, B, Ei}
F-180 {Ora, Ei}
F-182 {G}
und
(GK-9)
Preiset den Herrn
Jubelt dem Herrn
F-184 {Ei, Tr}
F-186 {IS,Tr}
F-188 {IK,Tr}
F-190 {B, Tr}
F-192 {RK, Tr}
F-194 {S}
F-198 {S}
F-200 {S}
F-202 {S}
F-206 {S}
F-193 {GA}
Bli-
F-196 {GA}
-tze
F-199 {GA}
Dunkel
F-203 {Ei}
F-205 {Ei}
P8
F-173 {IS, IS, Ei}
F-175 {R, Ei}
F-177 {SK-11, Ei}
F-179 {G}
alle
F-181 {RK, Tr}
F-183 {B, B, Tr}
(GK-7)
Jubelt dem Herrn
ihr Himmel droben
F-185 {SK-11}
F-187 {Ora,Ora,Tr}
F-189 {R,Tr}
F-191 {G}
Werke alles
F-195 {RK}
F-197 {RK}
F-201 {RK}
F-204 {RK}

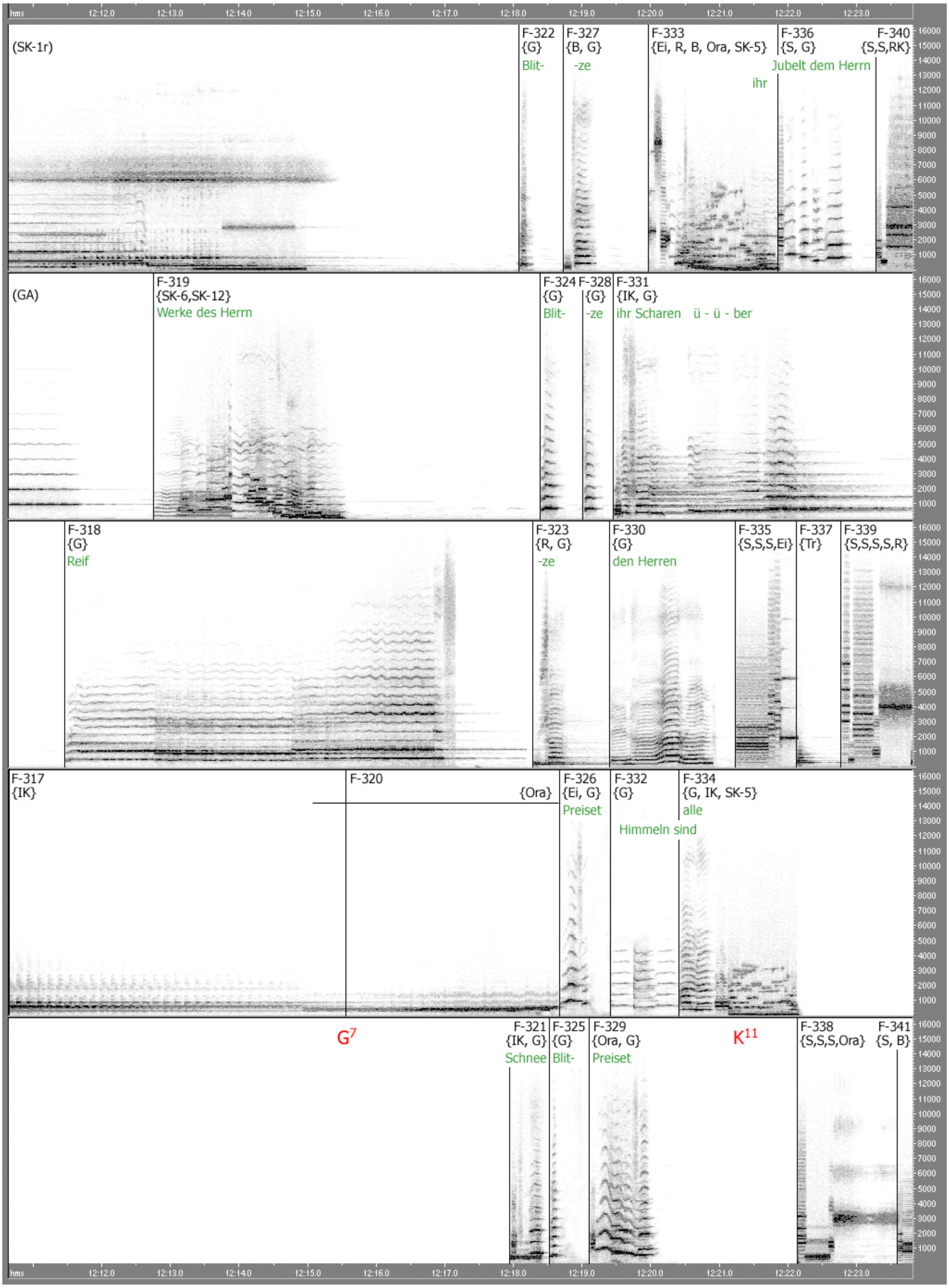

hms
11:23.0
11:23.5
11:24.0
11:24.5
11:25.0
11:25.5
11:26.0
11:26.5
11:27.0
11:27.5
11:28.0
11:28.5
\Einschub J/
16000
15000
14000
13000
12000
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
F-210 {S}
F-214 {S}
F-216 {S}
F-224 {IS}
F-226 {IS}
F-229 {Ora}
F-231 {Ora}
F-233 {Ora}
F-235 {Ora}
F-237 {Ora}
F-239 {B}
F-241 {B}
F-243 {Tr}
F-246 {Tr}
F-249 {Tr}
F-252 {Tr}
F-254 {IS}
F-256 {IS}
F-258 {IS}
F-260 {IS}
F-207 {Ei}
F-209 {Ei}
F-211 {Ei}
F-213 {Ei}
F-215 {Tr}
F-217 {B}
F-219 {B}
F-221 {B}
F-223 {B}
F-225 {S}
F-227 {S}
F-230 {S}
F-234 {S}
F-240 {S}
F-244 {S}
F-247 {S}
F-250 {S}
F-255 {S}
F-257 {S}
F-259 {S}
F-261 {S}
F-208 {RK}
F-212 {RK}
F-218 {RK}
F-220 {RK}
F-222 {RK}
F-228 {RK}
F-232 {RK}
F-236 {RK}
F-238 {RK}
F-242 {RK}
F-245 {RK}
F-248 {RK}
F-251 {RK}
F-253 {RK}


\Einschub K/
F-285 {Tr, Tr}
F-290 {Tr}
\Einschub L/
F-262 {IS}
F-264 {IS}
F-266 {RK}
F-270 {RK}
F-268 {RK}
F-272 {RK}
F-274 {RK}
F-276 {RK}
F-278 {RK}
F-281 {RK}
F-284 {Tr}
X1
(Eigr-2)
F-289 {Tr, Tr}
F-263 {S}
F-271 {S}
F-280 {S, S}
F-283 {S}
F-288 {Tr}
F-287 {Tr}
F-265 {Ora}
F-267 {Ora}
F-269 {Ora}
F-273 {Ei}
F-275 {Ei}
F-277 {Ei}
F-279 {Ei, Ei}
F-282 {GA, GA}
Strah-
-len
(Eigr-2)
F-286 {Tr, Tr}

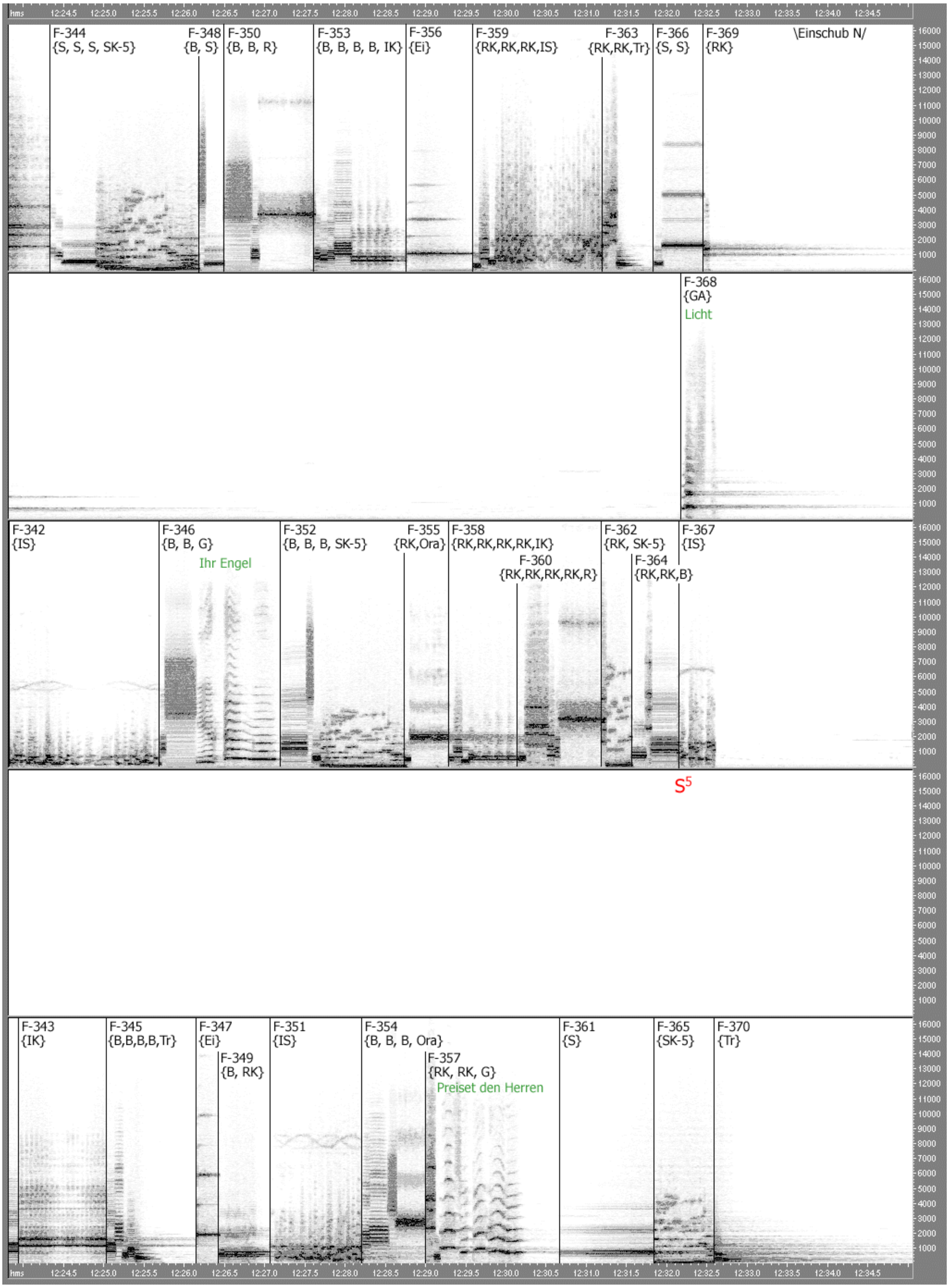

F-295
{Tr, Tr}
F-297
{Tr}
F-302
{Tr, Tr}
\Einschub M...
F-294
{Tr}
F-298
{Tr, Tr}
F-303
{Tr}
F-293
{Tr, Tr}
F-299
{Tr}
F-304
{Tr}
F-292
{Tr, Tr}
F-300
{Tr}
F-305
{G, Tr}
Schnee - e
F-291
{Tr}
F-296
{Tr, Tr}
F-301
{Tr, Tr}
GT-1r
"nnn..."

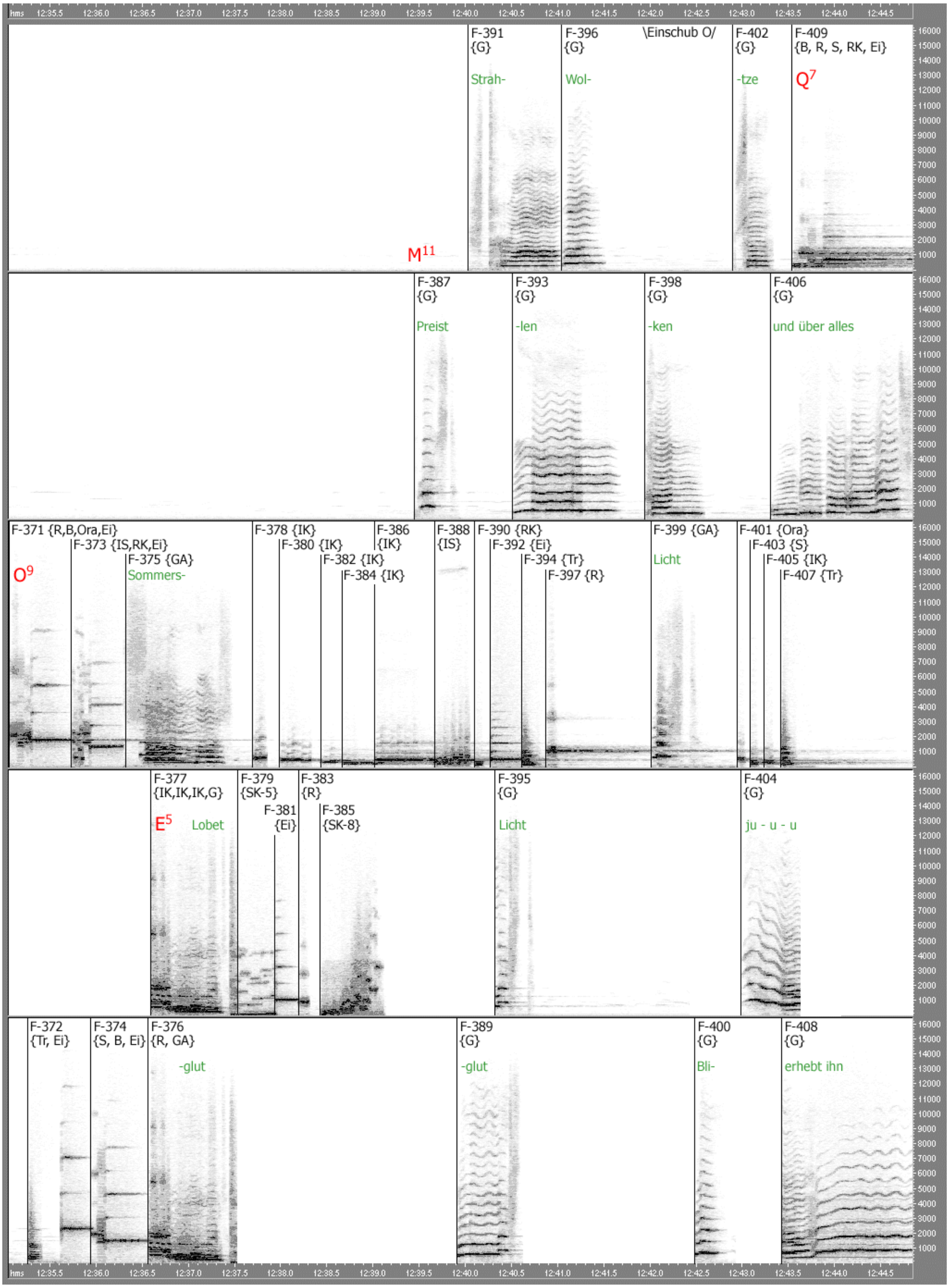


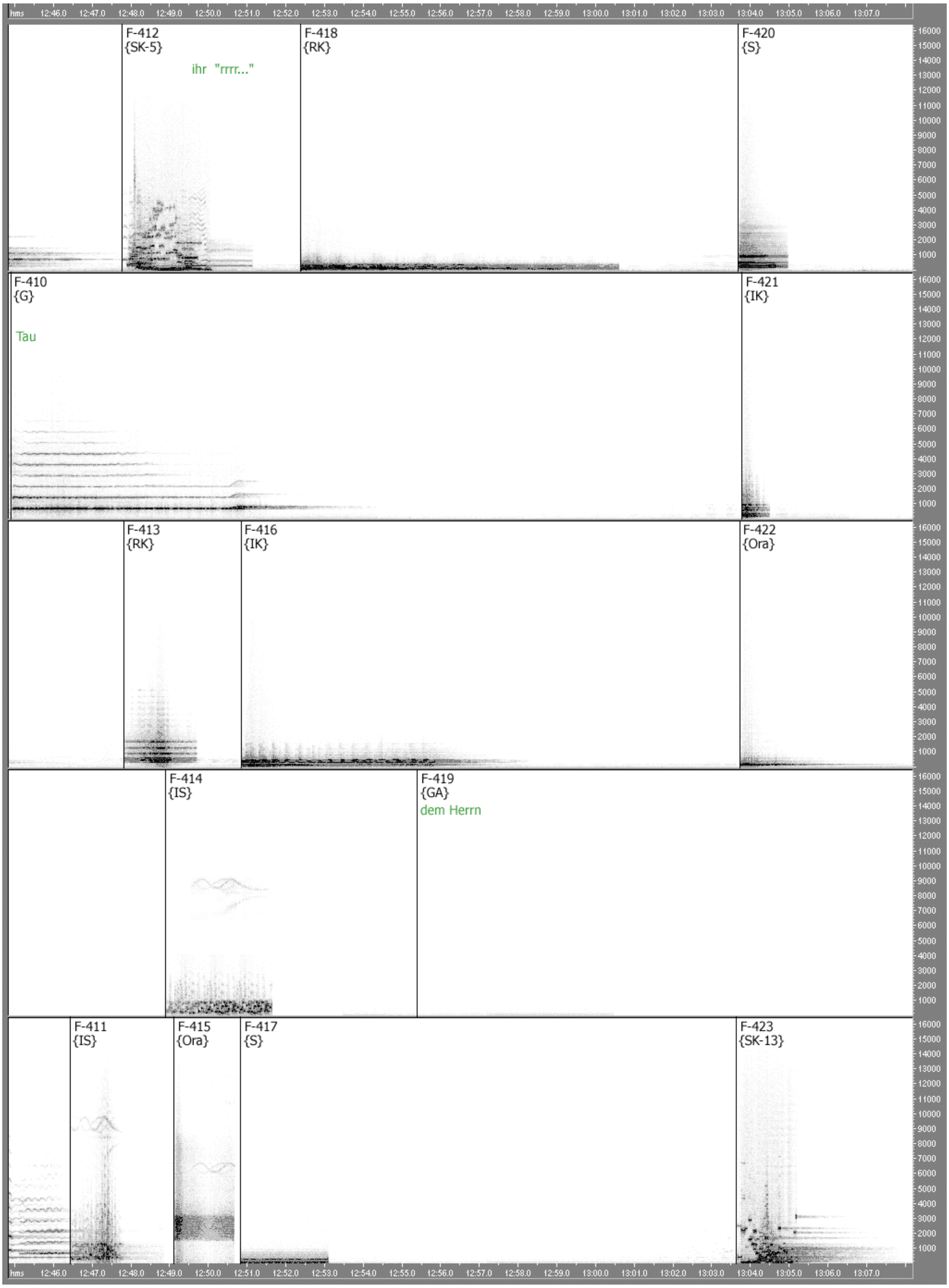
...Einschub M/
F-309
{RK}
F-312
{S}
F-316
{SK-9, SK-1r}
C3
-uj
F-306
{S, Tr, RK}
F-311
{RK, S}
F-315
{GA}
Tage
T4
F-308
{GA, RK}
Feu-
F-313
{GA, GA}
Wolken
F-307
{RK}
F-310
{Tr, GA, S}
-er
F-314
{GA, GA}
Nächte
W1
(GT-1r)
"nnn..."
UMO


(SK-1r)
F-322 {G} Blit-
F-327 {B, G} -ze
F-333 {Ei, R, B, Ora, SK-5} ihr
F-336 {S, G} Jubelt dem Herrn
F-340 {S,S,RK}
(GA)
F-319 {SK-6,SK-12} Werke des Herrn
F-324 {G} Blit-
F-328 {G} -ze
F-331 {IK, G} ihr Scharen ü - ü - ber
F-318 {G} Reif
F-323 {R, G} -ze
F-330 {G} den Herren
F-335 {S,S,S,Ei}
F-337 {Tr}
F-339 {S,S,S,S,R}
F-317 {IK}
F-320 {Ora}
F-326 {Ei, G} Preiset
F-332 {G} Himmeln sind
F-334 {G, IK, SK-5} alle
G7
F-321 {IK, G} Schnee
F-325 {G} Blit-
F-329 {Ora, G} Preiset
K11
F-338 {S,S,S,Ora}
F-341 {S, B}

2


F-344
{S, S, S, SK-5}
F-348
{B, S}
F-350
{B, B, R}
F-353
{B, B, B, B, IK}
F-356
{Ei}
F-359
{RK,RK,RK,IS}
F-363
{RK,RK,Tr}
F-366
{S, S}
F-369
{RK}
\Einschub N/
F-368
{GA}
Licht
F-342
{IS}
F-346
{B, B, G}
Ihr Engel
F-352
{B, B, B, SK-5}
F-355
{RK,Ora}
F-358
{RK,RK,RK,RK,IK}
F-360
{RK,RK,RK,RK,R}
F-362
{RK, SK-5}
F-364
{RK,RK,B}
F-367
{IS}
S5
F-343
{IK}
F-345
{B,B,B,B,Tr}
F-347
{Ei}
F-349
{B, RK}
F-351
{IS}
F-354
{B, B, B, Ora}
F-357
{RK, RK, G}
Preiset den Herren
F-361
{S}
F-365
{SK-5}
F-370
{Tr}


F-391 {G} Strah-
F-396 {G} Wol-
\Einschub O/
F-402 {G} -tze
F-409 {B, R, S, RK, Ei}
Q7
M11
F-387 {G} Preist
F-393 {G} -len
F-398 {G} -ken
F-406 {G} und über alles
F-371 {R,B,Ora,Ei}
F-373 {IS,RK,Ei}
F-375 {GA} Sommers-
O9
F-378 {IK}
F-380 {IK}
F-382 {IK}
F-384 {IK}
F-386 {IK}
F-388 {IS}
F-390 {RK}
F-392 {Ei}
F-394 {Tr}
F-397 {R}
F-399 {GA} Licht
F-401 {Ora}
F-403 {S}
F-405 {IK}
F-407 {Tr}
F-377 {IK,IK,IK,G}
E5 Lobet
F-379 {SK-5}
F-381 {Ei}
F-383 {R}
F-385 {SK-8}
F-395 {G} Licht
F-404 {G} ju - u - u
F-372 {Tr, Ei}
F-374 {S, B, Ei}
F-376 {R, GA} -glut
F-389 {G} -glut
F-400 {G} Bli-
F-408 {G} erhebt ihn


F-412
{SK-5}
ihr "rrrr..."
F-418
{RK}
F-420
{S}
F-410
{G}
Tau
F-421
{IK}
F-413
{RK}
F-416
{IK}
F-422
{Ora}
F-414
{IS}
F-419
{GA}
dem Herrn
F-411
{IS}
F-415
{Ora}
F-417
{S}
F-423
{SK-13}